# Product datasheet

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 phases<br>400 V 3 phases |
| **Other Input Voltage** | 415 V |
| **Main Output Voltage** | 480 V 3 phases<br>400 V 3 phases |
| **Other Output Voltage** | 415 V |
| **Rated Power In W** | 300000 W |
| **Rated Power In Va** | 300000 VA |
| **Output Connector Type** | Hard wire 4-wire (3P + E) 1<br>Hard wire 5-wire (3P + N + E) 1 |
| **Battery Type** | VRLA |
| **Provided Equipment** | Assembly service<br>Installation guide<br>Network management card<br>Start-up service<br>User manual |

## Batteries & Runtime

| | |
|---|---|
| **Run Time** | View Runtime Graph |
| **Efficiency** | View Efficiency Graph |
| **Number Of Battery Filled Slots** | 20 |
| **Number Of Battery Free Slots** | 24 |
| **Battery Recharge Time** | 3.5 h |
| **Number Of Battery Replacement Quantity** | 6 |
| **Battery Overload Operation** | 10 minutes at 125% and 60 seconds at 150% |
| **Battery Charger Power** | 29538 W rated |
| **Battery Design Life** | 5…8 year(s) |
| **Extended Runtime** | 1 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## 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

| | |
|---|---|
| **Colour** | Black |
| **Height** | 199.1 cm |
| **Width** | 405 cm |
| **Depth** | 107 cm |
| **Net Weight** | 5612 kg |
| **Usb Compatible** | No |

## Input

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|---|---|
| **Network Frequency** | 40...70 Hz auto-sensing |
| **Number Of Input Connectors** | 1 hard wire 4-wire (3P + E)<br>1 hard wire 5-wire (3P + N + E) |
| **Input Voltage Limits** | 340...460 V 400 V<br>408...552 V 480 V |
| **Max Short Time Withstand Current** | 50 kA |
| **Input Harmonic Distortion** | Less than 5 % for full load |
| **Input Protection Type** | 3-pole circuit breaker |
| **Load Power Factor** | 0.5 leading to 0.5 lagging |
| **Input Power Factor At Full Load** | 0.99 |

## Output

| | |
|---|---|
| **Maximum Configurable Power In W** | 500000 W |
| **Harmonic Distortion** | Less than 2 % |
| **Output Frequency** | 50 Hz sync to mains<br>60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised<br>50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised<br>60 Hz sync to mains |
| **Ups Type** | Double conversion online |
| **Wave Type** | Sine wave |
| **Output Voltage Tolerance** | +/- 1% static and +/- 5% at 100% load step |
| **Output Harmonic Distortion** | < 2% linear load and < 3% non-linear load |
| **Output Overload Operation** | 10 minutes at 125% and 60 seconds at 150% |
| **Bypass Type** | Built-in static bypass |
| **Efficiency** | 96 % (in battery operation) |
| **Maximum Configurable Power In Va** | 500000 VA |
| **Transfer Time** | 2 ms typical |

## Conformance

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|---|---|
| **Product Certifications** | cUL listed<br>EUROBAT<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>UL 1778<br>UL 60950-1 |

## Environmental

| | |
|---|---|
| **Ambient Air Temperature For Operation** | 0…40 °C |
| **Relative Humidity** | 0…95 % |
| **Operating Altitude** | 0...3333 ft |
| **Ambient Air Temperature For Storage** | -15…40 °C |
| **Storage Relative Humidity** | 0…95 % |
| **Storage Altitude** | 0.00…15240.00 m |
| **Acoustic Level** | 54 dBA |
| **Heat Dissipation** | 37136 Btu/h |
| **Nema Degree Of Protection** | NEMA 1 |
| **Ip Degree Of Protection** | IP20 |

## Communications & Management

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|---|---|
| **Free Slots** | 1 |
| **Preinstalled Device** | Network management card 2 with environmental monitoring, out of band access and Modbus |
| **Control Panel** | Touch screen LCD user interface |
| **Emergency Power Off** | Optional |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 215 cm |
| **Package 1 Width** | 127 cm |
| **Package 1 Length** | 598 cm |
| **Package 1 Weight** | 6178 kg |

## Contractual warranty

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

## Sustainability

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Energy Efficient

## Resource performance

Energy Efficient Product

| | |
|---|---|
| **Eu Rohs Directive** | Not compliant |