

# Product datasheet

Specifications



## Symmetra PX 100KW Scalable to 250KW Without Maintenance Bypass or Distribution-Parallel Capable

SY100K250D

**Price: 2,014,800.00 ZAR**

### 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>	480 V 3 phases 400 V 3 phases
<b>Input voltage</b>	415 V
<b>Max short time withstand current</b>	50 kA
<b>Input harmonic distortion</b>	Less than 5 % for full load
<b>Input protection type</b>	3-pole circuit breaker
<b>Load power factor</b>	0.5 leading to 0.5 lagging
<b>Cos phi</b>	0.99
<b>Input voltage limits</b>	340...460 V 400 V 408...552 V 480 V
<b>Number of input connectors</b>	1 hard wire 4-wire (3P + E) 1 hard wire 5-wire (3P + N + E)
<b>Network frequency</b>	40...70 Hz auto-sensing
<b>Output voltage</b>	480 V 3 phases 400 V 3 phases
<b>Output voltage</b>	415 V
<b>Rated power in W</b>	100000 W
<b>rated power in VA</b>	100000 VA
<b>Output connector type</b>	Hard wire 4-wire (3P + E) for 1 zone(s) Hard wire 5-wire (3P + N + E) for 1 zone(s)
<b>Bypass type</b>	Built-in static bypass
<b>Harmonic distortion</b>	Less than 2 %
<b>Maximum configurable power in VA</b>	500000 VA
<b>Maximum configurable power in W</b>	250000 W
<b>Output harmonic distortion</b>	< 2% linear load and < 3% non-linear load
<b>Output overload operation</b>	10 minutes at 125% and 60 seconds at 150%

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Output voltage tolerance</b>	+/- 1% static and +/- 5% at 100% load step
<b>Transfer time</b>	2 ms typical
<b>UPS type</b>	Double conversion online
<b>Wave type</b>	Sine wave
<b>Efficiency</b>	96.5 % (in battery operation)
<b>Output frequency</b>	50 Hz sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised 60 Hz sync to mains

## Complementary

<b>Battery type</b>	VRLA
<b>Battery voltage</b>	+/- 288 V
<b>Extended runtime</b>	0
<b>Number of battery filled slots</b>	7
<b>Number of battery free slots</b>	1
<b>Battery recharge time</b>	3 h
<b>Number of battery replacement quantity</b>	6
<b>Battery design life</b>	5...8 year(s)
<b>Battery charger power</b>	12056 W rated
<b>Battery overload operation</b>	10 minutes at 125% and 60 seconds at 150%
<b>Control panel</b>	Touch screen LCD user interface
<b>Emergency power off</b>	Optional
<b>Free slots</b>	1
<b>Preinstalled device</b>	Network management card 2 with environmental monitoring, out of band access and Modbus
<b>Height</b>	199.1 cm
<b>Width</b>	235 cm
<b>Depth</b>	107 cm
<b>Net weight</b>	2267 kg
<b>USB compatible</b>	No
<b>Provided equipment</b>	Assembly service Network management card Start-up service User manual
<b>Bypass voltage tolerance</b>	+/- 10 % settable from +/- 4/6/8 and 10 %
<b>Number of power module filled slots</b>	4
<b>Number of power module free slots</b>	6
<b>Redundant</b>	Yes

## Environment

<b>Product certifications</b>	cUL listed EUROBAT UL listed
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<b>Standards</b>	CSA C22.2 No 107.3-05 EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-3 FCC part 15 class A VFI-SS-111
<b>Ambient air temperature for operation</b>	0...40 °C
<b>Ambient air temperature for storage</b>	-15...40 °C
<b>Storage altitude</b>	0...15240 m
<b>IP degree of protection</b>	IP20
<b>Relative humidity</b>	0...95 %
<b>Storage Relative Humidity</b>	0...95 %
<b>NEMA degree of protection</b>	NEMA 1
<b>Acoustic level</b>	54 dBA
<b>Heat dissipation</b>	12378 Btu/h
<b>Operating altitude</b>	0...3333 ft

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	215 cm
<b>Package 1 Width</b>	127 cm
<b>Package 1 Length</b>	299 cm
<b>Package 1 Weight</b>	2517 kg

## Contractual warranty

<b>Warranty (in months)</b>	12
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better



#### Materials and Substances

[EU RoHS Directive](#)

Compliant with Exemptions

REACH Regulation

[REACH Declaration](#)



#### Energy efficiency

Energy Efficiency Optimized

Energy efficient product

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

Take-back

No

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins