

# Product datasheet

Specifications



## Symmetra PX 96kW Scalable to 160kW, 400V

SY96K160H

### Overview

<b>Presentation</b>	Modular, high-efficiency 3-phase UPS that is scalable as your data center grows up to 160kW/160kVA. Suitable for small, medium & large data center applications.
<b>Lead time</b>	Usually Ships within 3 Weeks

### Main

<b>Main Input Voltage</b>	400 V 3 phases
<b>Main Output Voltage</b>	230 V 400 V 3 phases
<b>Rated power in W</b>	96000 W
<b>Rated power in VA</b>	96000 VA
<b>Output connector type</b>	Hard wire 5-wire (3P + N + E) 1
<b>Battery type</b>	VRLA
<b>Provided equipment</b>	Network management card Start-up service User manual

### Batteries & Runtime

<b>Number of battery filled slots</b>	9
<b>Number of battery free slots</b>	0
<b>Battery recharge time</b>	3.5 h
<b>Number of battery replacement quantity</b>	4
<b>Additional information</b>	Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
<b>Battery voltage</b>	+/- 192 V (split battery referenced to neutral)
<b>Discharge battery voltage</b>	+/- 154 V
<b>Overcurrent protection</b>	320 A
<b>Maximum short-circuit current</b>	6 kA
<b>Max current discharge</b>	332 A
<b>Battery overload operation</b>	10 minutes at 125% and 60 seconds at 150%
<b>Battery charger power</b>	8862 W rated
<b>Battery design life</b>	5...8 year(s)
<b>Battery power in VAH</b>	31104 VAh runtime

Battery option	SYCFXR9-9 1 62208 VAh SYCFXR9-9 2 93312 VAh SYCFXR9-9 3 124416 VAh
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Extended runtime	1
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## General

Bypass wiring configuration	5 wire (3P + N + E)
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Max bypass input current	250 A
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Bypass current protection	250 A
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Number of power module free slots	4
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Number of power module filled slots	6
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Redundant	Yes
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## Physical

Colour	Black
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Height	199.1 cm
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Width	120 cm
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Depth	107 cm
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Product weight	1748 kg
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USB compatible	No
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## Input

Network frequency	40...70 Hz
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Number of input connectors	1 hard wire 5-wire (3P + N + E)
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Input voltage limits	340...477 V
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Maximum input current	197 A
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Switching current capacity	315 A
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Max short time withstand current	30 kA
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Input harmonic distortion	Less than 5 % for full load
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Load power factor	0.5 leading to 0.5 lagging
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Input Power Factor at Full Load	0.99
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## Output

Maximum configurable power in W	160000 W
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Harmonic distortion	Less than 2 %
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Output frequency	50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised
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UPS type	Double conversion online
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Wave type	Sine wave
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Output voltage tolerance	+/- 1% static and +/- 5% at 100% load step
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Output harmonic distortion	< 2% for 0 to 100% linear load and < 6% for full non-linear load
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Output overload operation	10 minutes at 125% and 60 seconds at 150%
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Required output current protection	250 A
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Neutral output current	240 A
Bypass type	Built-in static bypass
Efficiency	95 % (full load) 95 % (half load) 94 % (in battery operation)
Maximum configurable power in VA	160000 VA

## Conformance

Product certifications	EUROBAT
Standards	EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 ISO 14001 ISO 9001 VFI-SS-111

## 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	63 dBA
Heat dissipation	17244 Btu/h
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

## Communications & Management

Free slots	2
Preinstalled device	Network management card with CAN
Control panel	Multifunction LCD status and control console
Emergency power off	Yes

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	214 cm
Package 1 Width	121 cm
Package 1 Length	169.6 cm
Package 1 Weight	1898 kg

## Offer Sustainability

EU RoHS Directive	Not compliant
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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)**