

# Product datasheet

Specifications



## Symmetra PX All-In-One 48kW Scalable to 48kW, 400V

SY48K48H-PD

### Overview

**Presentation** Scalable power, runtime & distribution in a high-density, single-frame design. This high-efficiency 3-phase UPS scales as your data center grows up to 48kW/48kVA. Suitable for small & medium data center applications.

**Lead time**

### Main

**Main Input Voltage** 400 V 3 phases

**Other Input Voltage** 380 V  
400 V  
415 V

**Main Output Voltage** 230 V  
400 V 3 phases

**Other Output Voltage** 380 V  
400 V  
415 V

**Rated power in W** 48000 W

**Rated power in VA** 48000 VA

**Battery type** VRLA

**Provided equipment** Network management card  
Start-up service

### General

**Bypass wiring configuration** 5 wire (3P + N + E)

**Bypass voltage tolerance** +/- 10 % settable from +/- 4/6/8 and 10 %

**Max bypass input current** 80 A

**Bypass current protection** 80 A

**Number of power module free slots** 0

**Number of power module filled slots** 3

**Redundant** Yes

### Physical

**Colour** Black

**Height** 199.1 cm

<b>Width</b>	60 cm
<b>Depth</b>	107 cm
<b>Net weight</b>	796 kg
<b>USB compatible</b>	No

## Input

<b>Network frequency</b>	40...70 Hz
<b>Number of input connectors</b>	1 hard wire 5-wire (3P + N + E)
<b>Input voltage limits</b>	340...477 V
<b>Maximum input current</b>	98 A
<b>Switching current capacity</b>	100 A
<b>Max short time withstand current</b>	30 kA
<b>Input harmonic distortion</b>	Less than 5 % for full load
<b>Input protection type</b>	GL fuse
<b>Load power factor</b>	0.5 leading to 0.5 lagging
<b>Input Power Factor at Full Load</b>	0.99

## Output

<b>Maximum configurable power in W</b>	48000 W
<b>Harmonic distortion</b>	Less than 2 %
<b>Output frequency</b>	50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised 60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised
<b>UPS type</b>	Double conversion online
<b>Wave type</b>	Sine wave
<b>Output voltage tolerance</b>	+/- 1% static and +/- 5% at 100% load step
<b>Output harmonic distortion</b>	< 2% for 0 to 100% linear load and < 6% for full non-linear load
<b>Output overload operation</b>	10 minutes at 125% and 60 seconds at 150%
<b>Required output current protection</b>	100 A
<b>Bypass type</b>	Built-in static bypass
<b>Efficiency</b>	94 % (in battery operation)
<b>Maximum configurable power in VA</b>	48000 VA

## Conformance

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

## Environmental

<b>Ambient air temperature for operation</b>	0...40 °C
<b>Relative humidity</b>	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	61 dBA
Heat dissipation	7719 Btu/h
NEMA degree of protection	NEMA 1

## Batteries & Runtime

Number of battery filled slots	4
Number of battery free slots	0
Battery recharge time	3 h
Number of battery replacement quantity	4
Additional information	Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
Battery voltage	+/- 192 V (split battery referenced to neutral)
Discharge battery voltage	+/- 154 V
Overcurrent protection	1008 A
Maximum short-circuit current	4 kA
Max current discharge	165 A
Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery charger power	4593 W rated
Battery design life	5...8 year(s)
Battery power in VAh	13824 VAh runtime
Battery option	SYCFXR48-9 1 44928 VAh SYCFXR48-9 2 76032 VAh SYCFXR48-9 3 107136 VAh SYCFXR48-9 4 138240 VAh
Extended runtime	1

## 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	84.8 cm
Package 1 Weight	858 kg

## Offer Sustainability

EU RoHS Directive	Compliant
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**Optimized Energy Efficiency**      Energy efficient product

## **Contractual warranty**

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

**Recommended replacement(s)**