

# Product datasheet

Specifications



## Symmetra PX 16kW All-In-One, Scalable to 48kW, 400V

SY16K48H-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** Usually Ships within 2 Weeks

### 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** 16000 W

**Rated Power In Va** 16000 VA

**Output Connector Type** Hard wire 5-wire (3P + N + E) 1

**Battery Type** VRLA

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

### Batteries & Runtime

**Run Time** [View Runtime Graph](#)

**Number Of Battery Filled Slots** 2

**Number Of Battery Free Slots** 2

**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** 504 A

**Maximum Short-Circuit Current** 1 kA

**Max Current Discharge** 55 A

**Battery Overload Operation** 10 minutes at 125% and 60 seconds at 150%

Battery Charger Power	2296 W rated
Battery Design Life	5...8 year(s)
Extended Runtime	1

## 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	1
Redundant	Yes

## Physical

Colour	Black
Height	199.1 cm
Width	60 cm
Depth	107 cm
Net Weight	537 kg
Usb Compatible	No

## Input

Network Frequency	40...70 Hz
Number Of Input Connectors	1 hard wire 5-wire (3P + N + E)
Input Voltage Limits	340...477 V
Maximum Input Current	33 A
Switching Current Capacity	100 A
Max Short Time Withstand Current	30 kA
Input Harmonic Distortion	Less than 5 % for full load
Input Protection Type	GL fuse
Load Power Factor	0.5 leading to 0.5 lagging
Input Power Factor At Full Load	0.99

## Output

Maximum Configurable Power In W	48000 W
Harmonic Distortion	Less than 2 %
Output Frequency	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
Ups Type	Double conversion online
Wave Type	Sine wave
Output Voltage Tolerance	+/- 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>	95 % (full load) 95 % (half load) 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 %
<b>Operating Altitude</b>	0...3333 ft
<b>Ambient Air Temperature For Storage</b>	-15...40 °C
<b>Storage Relative Humidity</b>	0...95 %
<b>Storage Altitude</b>	0.00...15240.00 m
<b>Acoustic Level</b>	61 dBA
<b>Heat Dissipation</b>	2573 Btu/h
<b>Nema Degree Of Protection</b>	NEMA 1

## Communications & Management

<b>Free Slots</b>	2
<b>Preinstalled Device</b>	Network management card with CAN
<b>Control Panel</b>	Multifunction LCD status and control console
<b>Emergency Power Off</b>	Yes

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	214 cm
<b>Package 1 Width</b>	121 cm
<b>Package 1 Length</b>	84.8 cm
<b>Package 1 Weight</b>	578 kg

## Contractual warranty

<b>Warranty</b>	1 year on-site repair or replace with factory authorized Start-Up
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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**Eu Rohs Directive**

Not compliant

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