

# Product datasheet

Specifications



## Symmetra PX 128kW Scalable to 160kW, 400V w/ Integrated Modular Distribution

SY128K160H-PD

### Overview

<b>Presentation</b>	A high-efficiency 3-phase UPS with integrated modular distribution that can be right-sized to your data center power requirements. With scalable power, distribution and run-time, this UPS grows with your data center up to 160kW/160kVA. Suitable for small to medium data centers or individual zones of large data centers.
<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>	128000 W
<b>Rated power in VA</b>	128000 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>	12
<b>Number of battery free slots</b>	6
<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>	756 A
<b>Maximum short-circuit current</b>	8 kA
<b>Max current discharge</b>	442 A
<b>Battery overload operation</b>	10 minutes at 125% and 60 seconds at 150%
<b>Battery charger power</b>	11815 W rated
<b>Battery design life</b>	5...8 year(s)

<b>Battery power in VAH</b>	41472 VAh runtime
<b>Battery option</b>	SYBT9-B4 3 51840 VAh SYBT9-B4 6 62208 VAh SYCFXR9-9 1 93312 VAh SYCFXR9-9 2 124416 VAh
<b>Extended runtime</b>	1

## General

<b>Bypass wiring configuration</b>	5 wire (3P + N + E)
<b>Max bypass input current</b>	250 A
<b>Bypass current protection</b>	250 A
<b>Number of power module free slots</b>	2
<b>Number of power module filled slots</b>	8
<b>Redundant</b>	Yes

## Physical

<b>Colour</b>	Black
<b>Height</b>	199.1 cm
<b>Width</b>	180 cm
<b>Depth</b>	107 cm
<b>Product weight</b>	2518 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>	236 A
<b>Switching current capacity</b>	315 A
<b>Max short time withstand current</b>	30 kA
<b>Input harmonic distortion</b>	Less than 5 % for full load
<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>	160000 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
<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%

Required output current protection	250 A
Neutral output current	320 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	22992 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	254.4 cm
Package 1 Weight	2729 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)**