

Product datasheet

Specifications

Symmetra PX 160kW, 400V

SY160K160H



Overview

Presentation 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.

Lead time Usually Ships within 3 Weeks

Main

Main Input Voltage 400 V 3 phases

Other Input Voltage 380 V
415 V

Main Output Voltage 230 V
400 V 3 phases

Rated power in W 160000 W

Rated power in VA 160000 VA

Output connector type Hard wire 5-wire (3P + N + E) 1

Battery type VRLA

Provided equipment Network management card
Start-up service
User manual

Batteries & Runtime

Number of battery filled slots 15

Number of battery free slots 3

Battery recharge time 3.5 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 945 A

Maximum short-circuit current 10 kA

Max current discharge 552 A

Battery overload operation 10 minutes at 125% and 60 seconds at 150%

Battery charger power 14769 W rated

Battery design life 5...8 year(s)

Battery power in VAh	51840 VAh runtime
Battery option	SYBT9-B4 3 62208 VAh SYCFXR9-9 1 93312 VAh SYCFXR9-9 2 124416 VAh

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	0
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Number of power module filled slots	10
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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	180 cm
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Depth	107 cm
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Product weight	2812 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	295 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
Neutral output current	400 A
Bypass type	Built-in static bypass
Efficiency	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	28741 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	255.4 cm
Package 1 Weight	3051 kg

Offer Sustainability

EU RoHS Directive	Not compliant
Optimized Energy Efficiency	Energy efficient product

Contractual warranty

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

Recommended replacement(s)