

Product data sheet

Specifications



Symmetra PX 125kW Scalable to 250kW with Maintenance Bypass and Distribution, No Batteries

SY125K250DR-PDNB

Overview

Presentation A high-performance, 3-phase, modular, scalable, power protection solution with industry-leading efficiency, capacity, and performance for medium to large data centers and mission critical environments.

Lead time Usually Ships within 6 Weeks

Main

Main Input Voltage 3 phase
3 phase

Other Input Voltage 415 V

Main Output Voltage 480 V 3 phase
400 V 3 phase

Other Output Voltage 415 V

Kw Rating 125000 W

Rated power in VA 125000 VA

Output connector type Hard Wire 4-wire (3PH + G) 1
Hard Wire 5-wire (3PH + N + G) 1

Battery Type External battery system

Provided equipment Assembly service
Installation guide
Start-Up Service
User Manual
Web/SNMP Management Card

General

Bypass Voltage Tolerance +/-10% settable from +/-4/6/8 and 10%

Number of power module free slots 5

Number of power module filled slots 5

Redundant Yes

Physical

Color Black

Height 78.39 in (199.1 cm)

Width 62.99 in (160 cm)

Depth 42.13 in (107 cm)

Net Weight	2705.07 lb(US) (1227 kg)
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USB compatible	No
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Input

Input Frequency	40 - 70 Hz auto-sensing
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Number of input connectors	1 Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G)
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Efficiency at full load	408...552 V 480 V
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Maximum Short Circuit Withstand (Icw)	50 kA
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Input Total Harmonic Distortion	Less than 5% for full load
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Input protection type	3-pole breaker
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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

Max Configurable Power (Watts)	250000 W
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Harmonic distortion	Less than 2%
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Output frequency	50 Hz sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal not synced 50 Hz +/- 0.1 % for 50 Hz nominal not synced 60 Hz sync to mains
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Topology	Double Conversion Online
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Waveform Type	Sine wave
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Output voltage tolerance	+/-1% static and +/- 5% at 100% load step
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Output Voltage THD	< 2% linear load and < 3% non-linear load
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Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
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Bypass type	Built-in Maintenance Bypass Built-in Static Bypass 96 % in battery operation)
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Maximum configurable power in VA	500000 VA
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Transfer Time	2ms typical
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Conformance

Product Certifications	cUL Listed UL Listed
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Standards	CSA C22.2 No.107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 OSH PD UL 1778 UL 60950-1
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Environmental

Ambient air temperature for operation	32...104 °F (0...40 °C)
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Relative Humidity	0...95 %
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Operating altitude	0...3333 ft
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Ambient Air Temperature for Storage	-22...158 °F (-30...70 °C)
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Storage Relative Humidity	0...95 %
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Storage altitude	0...50000 ft (0.00...15240.00 m)
Acoustic level	54 dBA
Heat dissipation	15473 Btu/h
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

Batteries & Runtime

Battery Slots Empty	0
Battery power in VAH	0 VAh runtime
Extendable Run Time	1

Communications & Management

Free slots	1
Pre-Installed SmartSlot™ Cards	Network management card 2 with environmental monitoring, out of band access and Modbus
Control panel	Touch Screen LCD User Interface
Emergency Power Off (EPO)	Optional

Ordering and shipping details

Package 1 Weight	3035.77 lb(US) (1377 kg)
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Packing Units

Package 1 Height	84.65 in (215 cm)
Package 1 Width	73.62 in (187 cm)
Package 1 Length	50.00 in (127 cm)

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
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