

# Product data sheet

Specifications



## Symmetra PX 125kW Scalable to 500kW with Maintenance Bypass and Distribution, No Batteries

SY125K500DR-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** 480 V 3 phase  
400 V 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

**Provided equipment** Assembly service  
Installation guide  
Network Management Card  
Start-Up Service  
User Manual

### Batteries & Runtime

**Battery Slots Empty** 0

**Battery power in VAH** 0 VAh runtime

**Extendable Run Time** 1

### General

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

**Number of power module free slots** 15

**Number of power module filled slots** 5

**Redundant** Yes

### Physical

**Color** Black

<b>Height</b>	78.39 in (199.1 cm)
<b>Width</b>	86.61 in (220 cm)
<b>Depth</b>	42.13 in (107 cm)
<b>Net Weight</b>	3304.73 lb(US) (1499 kg)
<b>USB compatible</b>	No

## Input

<b>Input Frequency</b>	40 - 70 Hz auto-sensing
<b>Number of input connectors</b>	1 Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G)
<b>Efficiency at full load</b>	408...552 V 480 V
<b>Maximum Short Circuit Withstand (Icw)</b>	50 kA
<b>Input Total Harmonic Distortion</b>	Less than 5% for full load
<b>Input protection type</b>	3-pole breaker
<b>Load power factor</b>	0.5 leading to 0.5 lagging
<b>Input Power Factor at Full Load</b>	0.99

## Output

<b>Max Configurable Power (Watts)</b>	500000 W
<b>Harmonic distortion</b>	Less than 2%
<b>Output Frequency (sync to mains)</b>	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
<b>Topology</b>	Double Conversion Online
<b>Waveform Type</b>	Sine wave
<b>Output voltage tolerance</b>	+/-1% static and +/- 5% at 100% load step
<b>Output Voltage THD</b>	< 2% linear load and < 3% non-linear load
<b>Overload Operation</b>	10 minutes @ 125% and 60 seconds @ 150%
<b>Bypass type</b>	Built-in Maintenance Bypass Built-in Static Bypass  96 % in battery operation)
<b>Maximum configurable power in VA</b>	500000 VA
<b>Transfer Time</b>	2ms typical

## Conformance

<b>Product Certifications</b>	cUL Listed UL Listed
<b>Standards</b>	CSA C22.2 No.107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 OSHDP UL 1778 UL 60950-1

## Environmental

<b>Ambient Air Temperature for Operation</b>	32...104 °F (0...40 °C)
<b>Relative Humidity</b>	0...95 %

<b>Operating altitude</b>	0...3333 ft
<b>Ambient Air Temperature for Storage</b>	-22...158 °F (-30...70 °C)
<b>Storage Relative Humidity</b>	0...95 %
<b>Storage altitude</b>	0...50000 ft (0.00...15240.00 m)
<b>Acoustic level</b>	54 dBA
<b>Heat dissipation</b>	19427 Btu/h
<b>NEMA degree of protection</b>	NEMA 1
<b>IP degree of protection</b>	IP20

## Communications & Management

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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	84.65 in (215 cm)
<b>Package 1 Width</b>	50.00 in (127 cm)
<b>Package 1 Length</b>	73.62 in (187 cm)
<b>Package 1 Weight</b>	3717.00 lb(US) (1686 kg)

## Offer Sustainability

<b>EU RoHS Directive</b>	Not compliant
<b>Optimized Energy Efficiency</b>	Energy efficient product

## Contractual warranty

<b>Warranty</b>	1 year on-site repair or replace with factory authorized Start-Up
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## Recommended replacement(s)