

# Product data sheet

Specifications



## Symmetra PX 125kW Scalable to 500kW with Right Mounted Maintenance Bypass and Distribution

SY125K500DR-PD

### 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  
Hard Wire 5-wire (3PH + N + G) 1

**Battery Type** VRLA

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

### Batteries & Runtime

**Included Battery Modules** 8

**Battery Slots Empty** 0

**Typical recharge time** 3.5 h

**RBC Quantity** 6

**Overload Operation** 10 minutes @ 125% and 60 seconds @ 150%

**Battery Charge Power (Watts)** 11815 W rated

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

**Battery power in VAH** 41472 VAh runtime

**Battery option** SYBFXR8-8 1 82944 VAh  
SYBFXR8-8 3 165888 VAh  
SYBFXR8-8 5 248832 VAh  
SYBFXR8-8 7 331776 VAh  
SYBFXR8-8 2 124416 VAh

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

Height 78.39 in (199.1 cm)

Width 116.14 in (295 cm)

Depth 42.13 in (107 cm)

Net Weight 6827.72 lb(US) (3097 kg)

USB compatible No

## Input

Input Frequency 40 - 70 Hz auto-sensing

Number of input connectors 1 Hard Wire 4-wire (3PH + G)  
1 Hard Wire 5-wire (3PH + N + G)

Efficiency at full load 340...460 V 400 V  
408...552 V 480 V

Maximum Short Circuit Withstand (Icw) 50 kA

Input Total Harmonic Distortion Less than 5% for full load

Input protection type 3-pole breaker

Load power factor 0.5 leading to 0.5 lagging

Input Power Factor at Full Load 0.99

## Output

Max Configurable Power (Watts) 500000 W

Harmonic distortion Less than 2%

Output Frequency (sync to mains) 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

Topology Double Conversion Online

Waveform Type Sine wave

Output voltage tolerance +/-1% static and +/- 5% at 100% load step

Output Voltage THD < 2% linear load and < 3% non-linear load  
10 minutes @ 125% and 60 seconds @ 150%

Bypass type Built-in Maintenance Bypass  
Built-in Static Bypass  
96 % in battery operation)

Maximum configurable power in VA 500000 VA

---

Transfer Time	2ms typical
---------------	-------------

## Conformance

---

Product Certifications	cUL Listed Eurobat General Purpose UL Listed
------------------------	--

---

Standards	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

---

Ambient Air Temperature for Operation	32...104 °F (0...40 °C)
---------------------------------------	-------------------------

---

Relative Humidity	0...95 %
-------------------	----------

---

Operating altitude	0...3333 ft
--------------------	-------------

---

Ambient Air Temperature for Storage	5...104 °F (-15...40 °C)
-------------------------------------	--------------------------

---

Storage Relative Humidity	0...95 %
---------------------------	----------

---

Storage altitude	0...50000 ft (0.00...15240.00 m)
------------------	----------------------------------

---

Acoustic level	54 dBA
----------------	--------

---

Heat dissipation	19427 Btu/h
------------------	-------------

---

NEMA degree of protection	NEMA 1
---------------------------	--------

---

IP degree of protection	IP20
-------------------------	------

## 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
---------------------------	----------

## Packing Units

---

Unit Type of Package 1	PCE
------------------------	-----

---

Number of Units in Package 1	1
------------------------------	---

---

Package 1 Height	84.65 in (215 cm)
------------------	-------------------

---

Package 1 Width	50.00 in (127 cm)
-----------------	-------------------

---

Package 1 Length	117.72 in (299 cm)
------------------	--------------------

---

Package 1 Weight	7524.38 lb(US) (3413 kg)
------------------	--------------------------

## Offer Sustainability

---

California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
---------------------------	---

---

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)**