

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

### 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	86.61 in (220 cm)
Depth	42.13 in (107 cm)
Net Weight	3304.73 lb(US) (1499 kg)

USB compatible	No
<b>Input</b>	
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	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
<b>Output</b>	
Max Configurable Power (Watts)	500000 W
Harmonic distortion	Less than 2%
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
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
Overload Operation	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
<b>Conformance</b>	
Product Certifications	cUL Listed 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
<b>Environmental</b>	
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	-22...158 °F (-30...70 °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

### 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

### Packing Units

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