

Product data sheet

Specifications



Symmetra PX 250kW Scalable to 500kW with Left Mounted Maintenance Bypass and Distribution

SY250K500DL-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 250000 W

Rated power in VA 250000 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 16

Battery Slots Empty 0

Typical recharge time 8 h

RBC Quantity 6

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

Battery Charge Power (Watts) 10355 W rated

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

Battery power in VAH 82944 VAh runtime

Battery option SYBFXR8-8 1 124416 VAh
SYBFXR8-8 2 165888 VAh
SYBFXR8-8 4 248832 VAh
SYBFXR8-8 6 331776 VAh
SYBFXR8-8 3 207360 VAh

Extendable Run Time	1
---------------------	---

General

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

Number of power module free slots	10
-----------------------------------	----

Number of power module filled slots	10
-------------------------------------	----

Redundant	Yes
-----------	-----

Physical

Color	Black
-------	-------

Height	78.39 in (199.1 cm)
--------	---------------------

Width	145.67 in (370 cm)
-------	--------------------

Depth	42.13 in (107 cm)
-------	-------------------

Net Weight	10813.68 lb(US) (4905 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	30946 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	191.34 in (486 cm)
------------------	--------------------

Package 1 Weight	11860.88 lb(US) (5380 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 www.P65Warnings.ca.gov
---------------------------	---

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)