Product data sheet

Specifications



Symmetra PX 500kW Scalable to 500kW without Maintenance Bypass or Distribution-Parallel Capable

SY500K500D

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. Multiple UPSs can be installed in parallel for ultra-efficient system redundancy or up to 2MW of power protection. Parallel installations with custom switchgear and installations using a 3rd-party maintenance bypass panel require the APC Symmetra PX250/500 Third Party Switchgear Kit for breaker monitoring and EPO functionality.
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	380 V 415 V
Kw Rating	500000 W
Rated power in VA	500000 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

Run Time	View Runtime Graph
Efficiency	View Efficiency Graph
Included Battery Modules	32
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)	47262 W rated
Battery design life	5…8 year(s)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Extendable Run Time	1

General

Bypass Voltage Tolerance	+/-10% settable from +/-4/6/8 and 10%
Number of power module free slots	0
Number of power module filled slots	20
Redundant	Yes

Physical

color	Black
Height	78.4 in (199.1 cm)
Width	189.0 in (480 cm)
Depth	42.1 in (107 cm)
Net Weight	17985.3 lb(US) (8158 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
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
Bypass type	Built-in Static Bypass
Efficiency at full load	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 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 (0.0000000000…15240.0000000000 m)
acoustic level	54 dBA
Online Thermal Dissipation	61893 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	84.6 in (215 cm)
Package 1 Width	50.0000000000 in (127 cm)
Package 1 Length	279.5 in (710 cm)
Package 1 Weight	19702.7 lb(US) (8937 kg)

Contractual warranty

Warranty	1 year on-site repair or replace with factory authorized Start-Up

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Learn more about Green Premium >



Energy Efficient

Resource performance

Energy Efficient Product

Eu Rohs Directive	Under investigation
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"

Image of product / Alternate images

Alternative



