Product datasheet

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 phases 400 V 3 phases
Other Input Voltage	415 V
Main Output Voltage	480 V 3 phases 400 V 3 phases
Other Output Voltage	380 V 415 V
Rated Power In W	500000 W
Rated Power In Va	500000 VA
Output Connector Type	Hard wire 4-wire (3P + E) 1 Hard wire 5-wire (3P + N + E) 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
Number Of Battery Filled Slots	32
Number Of Battery Free Slots	0
Battery Recharge Time	3.5 h
Number Of Battery Replacement Quantity	6
Battery Overload Operation	10 minutes at 125% and 60 seconds at 150%
Battery Charger Power	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

Extended Runtime	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

Colour	Black
Height	199.1 cm
Width	480 cm
Depth	107 cm
Net Weight	8158 kg
Usb Compatible	No

Input

Network Frequency	40...70 Hz auto-sensing
Number Of Input Connectors	1 hard wire 4-wire (3P + E) 1 hard wire 5-wire (3P + N + E)
Input Voltage Limits	340...460 V 400 V 408...552 V 480 V
Max Short Time Withstand Current	50 kA
Input Harmonic Distortion	Less than 5 % for full load
Input Protection Type	3-pole circuit breaker
Load Power Factor	0.5 leading to 0.5 lagging
Input Power Factor At Full Load	0.99

Output

Maximum Configurable Power In W	500000 W
Harmonic Distortion	Less than 2 %
Output Frequency	50 Hz sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised 60 Hz sync to mains
Ups Type	Double conversion online
Wave Type	Sine wave
Output Voltage Tolerance	+/- 1% static and +/- 5% at 100% load step
Output Harmonic Distortion	< 2% linear load and < 3% non-linear load
Output Overload Operation	10 minutes at 125% and 60 seconds at 150%
Bypass Type	Built-in static bypass
Efficiency	96 % (in battery operation)
Maximum Configurable Power In Va	500000 VA
Transfer Time	2 ms typical

Conformance

Product Certifications	cUL listed EUROBAT 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	0…40 °C
Relative Humidity	0…95 %
Operating Altitude	0...3333 ft
Ambient Air Temperature For Storage	-15…40 °C
Storage Relative Humidity	0…95 %
Storage Altitude	0.00…15240.00 m
Acoustic Level	54 dBA
Heat Dissipation	61893 Btu/h
Nema Degree Of Protection	NEMA 1
Ip Degree Of Protection	IP20

Communications & Management

Free Slots	1
Preinstalled Device	Network management card 2 with environmental monitoring, out of band access and Modbus
Control Panel	Touch screen LCD user interface
Emergency Power Off	Optional

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	215 cm
Package 1 Width	127 cm
Package 1 Length	710 cm
Package 1 Weight	8937 kg

Contractual warranty

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

Sustainability

Green Premium^{TM} 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.

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Energy Efficient

Resource performance

Energy Efficient Product

Eu Rohs Directive	Under investigation