

Product data sheet

Specifications



Symmetra PX 150kW Scalable to 250kW without Maintenance Bypass or Distribution-Parallel Capable

SY150K250D

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	415 V
Rated power in W	150000 W
Rated power in VA	150000 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	10
Battery Slots Empty	36
Typical recharge time	3.5 h
RBC Quantity	6
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
Battery Charge Power (Watts)	14769 W rated
Battery design life	5...8 year(s)
Battery power in VAh	51840 VAh runtime
Battery option	SYBT9-B6 6 82944 VAh SYBFXR8-8 1 124416 VAh

SYBFXR8-8 2 165888 VAh
 SYBFXR8-8 6 331776 VAh
 SYBT9-B6 3 67392 VAh
 SYBFXR8-8 3 207360 VAh
 SYBFXR8-8 4 248832 VAh
 SYBFXR8-8 5 290304 VAh

Extendable Run Time 1

General

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

Number of power module free slots 4

Number of power module filled slots 6

Redundant Yes

Physical

Color Black

Height 78.39 in (199.1 cm)

Width 106.30 in (270 cm)

Depth 42.13 in (107 cm)

Product Weight 7019.52 lb(US) (3184 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 Static Bypass
97 % in battery operation)

Maximum configurable power in VA	500000 VA
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Transfer Time	2ms typical
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Conformance

Product Certifications	cUL Listed Eurobat General Purpose UL Listed
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Standards	CSA C22.2 No.107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 OSHPD UL 1778 UL 60950-1
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Environmental

Ambient Air Temperature for Operation	32...104 °F (0...40 °C)
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Relative Humidity	0...95 %
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Operating altitude	0...3333 ft
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Ambient Air Temperature for Storage	5...104 °F (-15...40 °C)
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Storage Relative Humidity	0...95 %
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Storage altitude	0...50000 ft (0.00...15240.00 m)
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Acoustic level	54 dBA
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Online Thermal Dissipation	18568 Btu/h
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NEMA degree of protection	NEMA 1
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IP degree of protection	IP20
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Communications & Management

Free slots	1
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Pre-Installed SmartSlot™ Cards	Network management card 2 with environmental monitoring, out of band access and Modbus
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Control panel	Touch Screen LCD User Interface
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Emergency Power Off (EPO)	Optional
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	84.65 in (215 cm)
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Package 1 Width	50.00 in (127 cm)
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Package 1 Length	161.81 in (411 cm)
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Package 1 Weight	7782.32 lb(US) (3530 kg)
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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
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EU RoHS Directive	Not compliant
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Optimized Energy Efficiency	Energy efficient product
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Contractual warranty

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

Recommended replacement(s)