

## Technical Specifications

Symmetra PX 100KW Scalable to 250KW Without Maintenance Bypass or Distribution-Parallel Capable | SY100K250D | Downloaded on 04/08/2024 (EST)



# Symmetra PX 100KW Scalable to 250KW Without Maintenance Bypass or Distribution-Parallel Capable

## SY100K250D

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- 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.
- Includes: Assembly service, Network management card, Start-up service, User manual

Output	
Output power capacity	100.0kWatts / 100.0kVA
Max Configurable Power (Watts)	250.0kWatts / 500.0kVA
Nominal Output Voltage	400V 3PH, 480V 3PH
Output Voltage Distortion	Less than 2 %
Output Frequency (sync to mains)	50 Hz +/- 0.1 % For 50 Hz nominal Unsynchronised, 50 Hz Sync to mains, 60 Hz +/- 0.1 % For 60 Hz nominal Unsynchronised, 60 Hz Sync to mains
Other Output Voltages	415 V
Topology	Double conversion online
Waveform type	Sine wave
Overload Operation	10 minutes at 125% and 60 seconds at 150%
Output Connections	(1) Hard wire 4-wire (3P + E) (1) Hard wire 5-wire (3P + N + E)
Output Voltage THD	< 2% linear load and < 3% non-linear load
Output Voltage Tolerance	+/- 1% static and +/- 5% at 100% load step
Transfer Time	2 ms typical
Bypass	Built-in static bypass

Input	
Nominal Input Voltage	400V 3PH, 480V 3PH
Input frequency	40 - 70 Hz Auto-sensing

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Input	
Input Connections	Hard wire 4-wire (3P + E), Hard wire 5-wire (3P + N + E)
Input voltage range for main operations	340 - 460 (400 V), 408 - 552 (480 V)V
Input Total Harmonic Distortion	Less than 5 % for full load
Type of Input Protection Required	3-pole circuit breaker
Other Input Voltages	415 V
Maximum Short Circuit Withstand (Icw)	50.0kAmps
Input Power Factor at Full Load	0.99

Batteries & Runtime	
Battery type	VRLA
Included Battery Modules	7
Typical recharge time	3hour(s)
Nominal Battery Voltage	+/- 288 V
Battery Slots Empty	1
RBC Quantity	6
Battery Charge Power (Watts)	12.056kWatts
Efficiency in Battery Operation	96.5 %
Overload Operation	10 minutes at 125% and 60 seconds at 150%
Runtime	View Runtime Graph (Available in Technical Tab on site)
Efficiency	View Efficiency Graph (Available in Technical Tab on site)

Communications & Management	
Interface Port(s)	SYPX250-500_Parallel
Pre-Installed SmartSlot™ Cards	AP9635 (Available in Technical Tab on site)
Control panel	Touch screen LCD user interface
Emergency Power Off (EPO)	Optional
Available SmartSlot™ Interface Quantity	1

Physical	
Maximum Height	1991MM, 199.1CM
Maximum Width	2350MM, 235.0CM

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Physical	
Maximum Depth	1070MM, 107.0CM
Net Weight	2267.0KG
Shipping weight	2517.0KG
Shipping Height	2150MM, 215.0CM
Shipping Width	1270MM, 127.0CM
Shipping Depth	2990MM, 299.0CM

  

Environmental	
Operating Temperature	0 - 40 °C
Operating Relative Humidity	0 - 95 %
Operating Elevation	0 - 1015.9meters
Storage Temperature	-15 - 40 °C
Storage Relative Humidity	0 - 95 %
Storage Elevation	0 - 15240meters
Audible noise at 1 meter from surface of unit	54.0dBA
Online thermal dissipation	12378.0BTU/hr
Protection Class	IP20, NEMA 1

  

Conformance	
Approvals	CSA C22.2 No 107.3-05, cUL listed, EN 50091-1, EN/IEC 62040-1-1, EN/IEC 62040-3, EUROBAT, FCC part 15 class A, UL listed, VFI-SS-111
Standard warranty	1 year on-site repair or replace with factory authorized Start-Up

  

Sustainable Offer Status	
Proposition 65 Warning	Available in Documentation tab

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