

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



Symmetra PX 125kW Scalable to 500kW without Bypass, Distribution or Batteries-Parallel Capable

SY125K500D-NB

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
Kw Rating	125000 W
Rated power in VA	125000 VA
Output connector type	Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G) 1
Battery Type	External battery system
Provided equipment	Assembly service Installation guide Network Management Card Start-Up Service User Manual

Batteries & Runtime

Battery Slots Empty	0
RBC Quantity	6
Battery power in VAH	0 VAh runtime
Extendable Run Time	1

General

Bypass Voltage Tolerance	+/-10% settable from +/-4/6/8 and 10%
Number of power module free slots	15

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Number of power module filled slots	5
Redundant	Yes
Physical	
Color	Black
Height	78.39 in (199.1 cm)
Width	70.87 in (180 cm)
Depth	42.13 in (107 cm)
Net Weight	2504.45 lb(US) (1136 kg)
USB compatible	No.
CCD companie	
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	408552 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)	Less than 2% 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
	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
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	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 Double Conversion Online
Topology Waveform Type	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 Double Conversion Online Sine wave
Topology Waveform Type Output voltage tolerance	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step
Topology Waveform Type Output voltage tolerance Output Voltage THD	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load
Topology Waveform Type Output voltage tolerance Output Voltage THD Overload Operation	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load 10 minutes @ 125% and 60 seconds @ 150%
Topology Waveform Type Output voltage tolerance Output Voltage THD Overload Operation	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load 10 minutes @ 125% and 60 seconds @ 150% Built-in Static Bypass
Topology Waveform Type Output voltage tolerance Output Voltage THD Overload Operation Bypass type Maximum configurable power in	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load 10 minutes @ 125% and 60 seconds @ 150% Built-in Static Bypass 96 % in battery operation)
Topology Waveform Type Output voltage tolerance Output Voltage THD Overload Operation Bypass type Maximum configurable power in VA Transfer Time	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load 10 minutes @ 125% and 60 seconds @ 150% Built-in Static Bypass 96 % in battery operation) 500000 VA
Topology Waveform Type Output voltage tolerance Output Voltage THD Overload Operation Bypass type Maximum configurable power in VA Transfer Time Conformance	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load 10 minutes @ 125% and 60 seconds @ 150% Built-in Static Bypass 96 % in battery operation) 500000 VA 2ms typical
Topology Waveform Type Output voltage tolerance Output Voltage THD Overload Operation Bypass type Maximum configurable power in VA Transfer Time	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 Double Conversion Online Sine wave +/-1% static and +/- 5% at 100% load step < 2% linear load and < 3% non-linear load 10 minutes @ 125% and 60 seconds @ 150% Built-in Static Bypass 96 % in battery operation) 500000 VA

Environmental

Ambient Air Temperature for Operation	32104 °F (040 °C)
Relative Humidity	095 %
Operating altitude	03333 ft
Ambient Air Temperature for Storage	-22158 °F (-3070 °C)
Storage Relative Humidity	095 %
Storage altitude	050000 ft (0.0015240.00 m)
Acoustic level	54 dBA
Heat dissipation	19427 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	73.62 in (187 cm)
Package 1 Weight	2885.85 lb(US) (1309 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)