

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

SY100K250D

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.

User Manual

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	100000 W
Rated power in VA	100000 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 Network Management Card Start-Up Service

Batteries & Runtime

Included Battery Modules	7
Battery Slots Empty	1
Typical recharge time	3 h
RBC Quantity	6
Battery Voltage	+/-288V
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
Battery Charge Power (Watts)	12056 W rated
Battery design life	58 year(s)
Battery power in VAH	36288 VAh runtime
Battery option	SYBT9-B6 1 41472 VAh

SYBFXR8-8 1 82944 VAh SYBFXR8-8 3 165888 VAh SYBFXR8-8 7 331776 VAh SYBFXR8-8 2 124416 VAh SYBFXR8-8 4 207360 VAh SYBFXR8-8 5 248832 VAh SYBFXR8-8 6 290304 VAh

Extendable Run Time

General

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

Physical

_	
Height	78.39 in (199.1 cm)
Width	92.52 in (235 cm)
Depth	42.13 in (107 cm)
Net Weight	4997.88 lb(US) (2267 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	340460 V 400 V 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)	250000 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
	96.5 % in battery operation)

500000 VA
300000 VA
2ms typical
cUL Listed Eurobat General Purpose UL Listed
CSA C22.2 No.107.3-05 EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-3 FCC Part 15 class A OSHPD VFI-SS-111
32104 °F (040 °C)
095 %
03333 ft
5104 °F (-1540 °C)
095 %
050000 ft (0.0015240.00 m)
54 dBA
12378 Btu/h
NEMA 1
IP20
gement
1
Network management card 2 with environmental monitoring, out of band access and Modbus
Touch Screen LCD User Interface
Optional
PCE
1
84.65 in (215 cm)
50.00 in (127 cm)
117.72 in (299 cm)
5549.04 lb(US) (2517 kg)
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

Not compliant

Energy efficient product

EU RoHS Directive

Optimized Energy Efficiency

Contractual warranty

Warranty

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

Recommended replacement(s)