Product data sheet
Characteristics

SY400K500DL-PD
APC Symmetra PX 400kW Scalable to 500kW with Maintenance Bypass Left & Distribution



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.
Lead time	Usually Ships within 6 Weeks

General

Provided equipment	Assembly service Installation guide Network Management Card Start-Up Service User Manual
Product web sub-family	Symmetra PX 250/500kW
Bypass Voltage Tolerance	+/-10% settable from +/-4/6/8 and 10%
Performance multiplier	0.350208
Number of tare power	2590 W
Number of power module free slots	4
Number of power module filled slots	16
Redundant	Yes
Size UPS version	Internetworking Server Telecom
UPS size	L
Value multiplier	0.81

Physical

Color	Black
Depth	42.13 in (107 cm)
Height	78.39 in (199.1 cm)
Mounting preference	No preference
Product Weight	16391.38 lb(US) (7435 kg)
Mounting Mode	Not rack-mountable
Two post mountable	0
USB compatible	No
Width	204.72 in (520 cm)

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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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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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
Other Input Voltages	415 V
Maximum Short Circuit Withstand (Icw)	50 kA
Input Total Harmonic Distortion	Less than 5% for full load
Input protection type	3-pole breaker
Nominal Input Voltage	3 phase 3 phase
Load power factor	0.5 leading to 0.5 lagging
Cos phi	0.99

Output

Kw Rating	400000 W
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
Other Output Voltages	415 V
Crest factor	Unlimited
Topology	Double Conversion Online
Waveform Type	Sine wave
Output connector type	Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G) 1
Output voltage tolerance	+/-1% static and +/- 5% at 100% load step
Output Voltage THD	< 2% linear load and < 3% non-linear load
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
Bypass type	Built-in Maintenance Bypass Built-in Static Bypass
Curve equation	Efficiency
Curve fixed loss	0.0071
Curve load maximum	100 %
Curve load minimum	1 %
Curve proportional loss	0.0155
Curve square loss	0.0166
Curve X-axis maximum	100 %
Curve test cond ID	Curve fit of data measured in accordance with the ENERGY STAR Test Method for Uninterruptible Power Supplies. All measurements taken in normal mode(s), at typical environmental conditions, with 480V/60Hz electrical input and balanced resistive load (PF = 1.0) output.
Curve X-axis minimum	0 %
Curve X-axis title	Load
Curve X-axis units	Percentage
Curve Y-axis maximum	100 %
Curve Y-axis minimum	50 %
Curve Y-axis title	Efficiency
Curve Y-axis units	Percentage
Efficiency at full load	96 % in battery operation)
Graph display	1
Output voltage	480 V 3 phase 400 V 3 phase
Maximum configurable power in VA	500000 VA

Rated power in VA	400000 VA
Transfer Time	2ms typical

Conformance

Product Certifications	CUL Listed Eurobat General Purpose UL Listed
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

Environmental

Ambient Air Temperature for Operation	32…104 °F (0…40 °C)
Relative Humidity	0…95 %
Operating altitude	0...3333 ft
Ambient Air Temperature for Storage	5…104 °F (-15…40 °C)
Storage Relative Humidity	0…95 %
Storage altitude	0…50000 ft (0.00…15240.00 m)
Acoustic level	54 dBA
Heat dissipation	49515 Btu/h
Show note OP temperature	No
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

Batteries & Runtime

Battery Type	VRLA
Included Battery Modules	26
Battery Slots Empty	36
Typical recharge time	3.5 h
RBC Quantity	6
Liquid Electrolyte Value	0
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
Battery curve	P
Battery Charge Power (Watts)	38400 W rated
Battery design life	5…8 year(s)
Battery power in VAH	134784 VAh runtime
Battery option	SYBT9-B6 6 165888 VAh SYBFXR8-8 1 207360 VAh SYBFXR8-8 2 248832 VAh SYBFXR8-8 4 331776 VAh SYBFXR8-8 3 290304 VAh
Extendable Run Time	1

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

Ordering and shipping details

Package weight(Lbs)	17967.69 lb(US) (8150 kg)

Packing Units

Package 1 Height	84.65 in (215 cm)
Package 1 width	279.53 in (710 cm)
Package 1 Length	50.00 in (127 cm)

Offer Sustainability

EU RoHS Directive	Under investigation
Optimized Energy Efficiency	Energy efficient product

Contractual warranty

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