

# SY500K500D

## Symmetra PX 500kW Scalable to 500kW without Maintenance Bypass or Distribution-Parallel Capable



### Overview

Description	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.
Model Name	Symmetra PX 500kW Scalable to 500kW without Maintenance Bypass or Distribution-Parallel Capable
Includes	Assembly service , Installation guide , Network Management Card , Start-Up Service , User Manual
Product Distribution	Albania , Algeria , Andorra , Angola , Anguilla , Antigua And Barbuda , Argentina , Armenia , Aruba , Australia , Austria , Azerbaijan , Bahrain , Bangladesh , Barbados , Belarus , Belgium , Belize , Benin , Bermuda , Bolivia , Bosnia And Herzegovina , Botswana , Brazil , Bulgaria , Burkina Faso , Burundi , Cameroon , Canada , Cayman Islands , Central African Republic , Chad , Chile , China , Colombia , Congo , CONGO, THE DEMOCRATIC REPUBLIC OF THE , Costa Rica , Cote D'Ivoire , Croatia , Cuba , Cyprus , Czech Republic , Denmark , Djibouti , Dominican Republic , Ecuador , Egypt , El Salvador , Equatorial Guinea , Eritrea , Estonia , Ethiopia , Falkland Islands (Malvinas) , Finland , France , Gabon , Gambia , Georgia , Germany , Ghana , Gibraltar , Greece , Guatemala , Guinea , Guyana , Honduras , Hong Kong , Hungary , Iceland , India , Indonesia , Iran (Islamic Republic Of) , Iraq , Ireland , Israel , Italy , Jamaica , Jordan , Kazakhstan , Kenya , KOREA, REPUBLIC OF , Kuwait , Latvia , Lebanon , Lesotho , Liberia , Liechtenstein , Lithuania , Luxembourg , Macedonia , Malawi , Malaysia , Mali , Malta , Mauritania , Mexico , Moldova, Republic Of , Mongolia , Morocco , Mozambique , Namibia , Netherlands , Netherlands Antilles , New Zealand , Nicaragua , Niger , Nigeria , Norway , Oman , Pakistan , Panama , Paraguay , Peru , Philippines , Poland , Portugal , Puerto Rico , Romania , Russian Federation , Rwanda , Saudi Arabia , Senegal , Sierra Leone , Singapore , Slovakia (Slovak Republic) , Slovenia , Somalia , South Africa , Spain , Sri Lanka , Sudan , Suriname , Sweden , Switzerland , Taiwan , Tajikistan , TANZANIA, UNITED REPUBLIC OF , Thailand , Togo , Trinidad And Tobago , Tunisia , Turkey , Turkmenistan , Uganda , Ukraine , United Arab Emirates , United States , Uruguay , Uzbekistan , Venezuela , Viet Nam , VIRGIN ISLANDS (UNITED STATES) , Western Sahara , Yemen , Zambia , Zimbabwe

### General

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

Output Power Capacity	500.0 KW / 500.0 kVA
Max Configurable Power (Watts)	500.0 KW / 500.0 kVA
Nominal Output Voltage	400 3PH , 480 3PH

Output Voltage Distortion	Less than 2%
Output Frequency (sync to mains)	50 Hz , 60 Hz
Other Output Voltages	380, 415V
Other Output Voltages	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(1) Hard Wire 4-wire (3PH + G) (Battery Backup) , (1) Hard Wire 5-wire (3PH + N + G) (Battery Backup)
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	Built-in Static Bypass

## Input

Nominal Input Voltage	400 3PH , 480 3PH
Input Frequency	40 - 70 Hz (auto sensing)
Input Connections	Hard Wire 4-wire (3PH + G) , Hard Wire 5-wire (3PH + N + G)
Input voltage range for main operations	340 - 460 (400V) V , 408 - 552 (480) V
Other Input Voltages	415
Maximum Short Circuit Withstand (Icw)	50.0
Input Total Harmonic Distortion	Less than 5% for full load
Type of Input Protection Required	3-pole breaker

## Batteries & Runtime

Battery Type	VRLA
Included Battery Modules	32
Typical recharge time	3.5 hour(s)
RBC Quantity	6
Efficiency in Battery Operation	96.00 %
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%

## Communications & Management

Interface Port(s)	SYPX250-500_Parallel
Available SmartSlot™ Interface Quantity	1
Pre-Installed SmartSlot™ Cards	AP9635
Control panel	Touch Screen LCD User Interface
Emergency Power Off (EPO)	Optional

## Physical

Maximum Height	1991.0 mm
Maximum Width	4800.0 mm
Maximum Depth	1070.0 mm
Net Weight	8158.0 kg
Shipping Weight	8937.0 kg
Shipping Height	2150.0 mm
Shipping Width	7100.0 mm
Shipping Depth	1270.0 mm
Color	Black

## Environmental

Operating Environment	0 - 40 °C
Operating Relative Humidity	0 - 95 %
Operating Elevation	0-999.9 meters
Storage Temperature	-15 - 40 °C
Storage Relative Humidity	0 - 95 %
Storage Elevation	0-15000 meters
Audible noise at 1 meter from surface of unit	54.000 dB
Online Thermal Dissipation	61893.000 BTU/hr
Protection Class	IP 20 , NEMA 1

## Conformance

Approvals	CSA C22.2 No.107.3-05 , EN/IEC 62040-1-1 , EN/IEC 62040-2 , EN/IEC 62040-3 , Eurobat General Purpose , OSHPD , UL 1778 , UL 60950-1 , UL Listed , cUL Listed
Standard warranty	1 year on-site repair or replace with factory authorized Start-Up