

# SY32K160H

Modular, high-efficiency 3-phase UPS that is scalable as your data center grows up to 160kW/160kVA. Suitable for small, medium & large data center applications.



## Overview

Description	<![CDATA[Modular, high-efficiency 3-phase UPS that is scalable as your data center grows up to 160kW/160kVA. Suitable for small, medium & large data center applications.]]>
Model Name	Symmetra PX 32kW Scalable to 160kW, 400V
Includes	Network Management Card , Start-Up Service , User Manual
Standard Lead Time	Usually Ships within 3 Weeks
Product Distribution	Afghanistan , Albania , Algeria , Angola , Anguilla , Antigua And Barbuda , Argentina , Armenia , Aruba , Australia , Austria , Azerbaijan , Bahamas , Bangladesh , Barbados , Belarus , Belgium , Belize , Bermuda , Bolivia , Bosnia And Herzegovina , Brazil , Bulgaria , Cambodia , Cameroon , Central African Republic , Chad , Chile , China , Colombia , Congo , CONGO, THE DEMOCRATIC REPUBLIC OF THE , Costa Rica , Croatia , Cuba , Cyprus , Czech Republic , Denmark , Dominica , Dominican Republic , East Timor , Ecuador , Egypt , El Salvador , Eritrea , Estonia , Ethiopia , Falkland Islands (Malvinas) , Fiji , Finland , France , Gambia , Georgia , Germany , Greece , Grenada , Guadeloupe , Guatemala , Guinea , Guyana , French Guiana , Haiti , Honduras , Hong Kong , Hungary , Iceland , India , Indonesia , Iraq , Ireland , Israel , Italy , Jamaica , Jordan , Kazakhstan , Kenya , KOREA, REPUBLIC OF , Latvia , Lebanon , Liechtenstein , Lithuania , Luxembourg , Macedonia , Madagascar , Malaysia , Martinique , Mauritius , Mayotte , Mexico , Mongolia , Morocco , Myanmar , Netherlands , Netherlands Antilles , New Zealand , Nicaragua , Norway , Pakistan , Panama , Paraguay , Peru , Philippines , Poland , Portugal , Puerto Rico , Reunion , Romania , Russian Federation , SAINT KITTS AND NEVIS , SAINT LUCIA , SAINT VINCENT AND THE GRENADINES , Saudi Arabia , Senegal , Singapore , Slovakia (Slovak Republic) , Slovenia , South Africa , Spain , Sri Lanka , Sudan , Suriname , Sweden , Switzerland , Thailand , Trinidad And Tobago , Tunisia , Turkey , Turks And Caicos Islands , Uganda , Ukraine , United Arab Emirates , Uruguay , Venezuela , Viet Nam , VIRGIN ISLANDS (UNITED STATES) , Yemen , Zambia , Zimbabwe

## General

Bypass Connection	5 wire (3PH + N + G)
Max Bypass Input Current	250 A
Bypass Protection Device	250 A

## Output

Output Power Capacity	32.0 KW / 32.0 kVA
Max Configurable Power (Watts)	160.0 KW / 160.0 kVA
Nominal Output Voltage	230V , 400 3PH

Output Voltage Note	Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
Output Voltage Distortion	Less than 2%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Crest Factor	Unlimited
Crest Factor	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(1) Hard Wire 5-wire (3PH + N + G) (Battery Backup)
Output Voltage THD	<![CDATA[< 2% for 0 to 100% linear load and < 6% for full non linear load]]>
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
Required Output Current Protection	250 A
Neutral Output Current	80 A
Bypass	Built-in Static Bypass

## Input

Nominal Input Voltage	400 3PH
Input Frequency	40 - 70 Hz
Input Connections	Hard Wire 5-wire (3PH + N + G)
Input voltage range for main operations	340 - 477 V
Maximum Input Current	59 A
Input Breaker Capacity	315 A
Maximum Short Circuit Withstand (Icw)	30.0
Input Total Harmonic Distortion	Less than 5% for full load

## Batteries & Runtime

Battery Type	VRLA
Included Battery Modules	3
Battery Slots Empty	6
Typical recharge time	3.5 hour(s)
RBC Quantity	4
Nominal Battery Voltage	+/- 192 V (split battery referenced to neutral)
End of Discharge Battery Voltage	+/- 154 V
End of Discharge Battery Voltage	189 A
Maximum Available Short Circuit Current	2 kA
Efficiency in Battery Operation	94.00 %
End of Discharge Maximum Battery Current	111 A
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%

## Communications & Management

Interface Port(s)	DB-9 RS-232 , SmartSlot
Available SmartSlot&trade; Interface Quantity	2
Control panel	Multi-function LCD status and control console
Audible Alarm	Alarm when on battery : distinctive low battery alarm : configurable delays
Emergency Power Off (EPO)	Yes

## Physical

Maximum Height	1991.0 mm
Maximum Width	1200.0 mm
Maximum Depth	1070.0 mm

Rack Height	42 U
Net Weight	1029.0 kg
Shipping Weight	1124.0 kg
Shipping Height	2140.0 mm
Shipping Width	1696.0 mm
Shipping Depth	1210.0 mm
Master Carton Units	0.0
Master Carton Weight	0.0 lbs
Color	Black
Units per Pallet	0.0

### 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	63.000 dB
Online Thermal Dissipation	5748.000 BTU/hr

### Conformance

Approvals	CE , EN 50091-1 , EN/IEC 62040-1-1 , EN/IEC 62040-3 , Eurobat General Purpose , FCC Part 15 Class A , ISO 14001 , ISO 9001 , VFI-SS-111
Standard warranty	1 year on-site repair or replace with factory authorized Start-Up

### Sustainable Offer Status

Battery Directive	Compliant
Battery Notes	Battery Notes