## SY96K160H-PD

**Symmetra PX 96kW Scalable to 160kW, 400V w/ Integrated Modular Distribution**

### Overview

**Description**
A high-efficiency 3-phase UPS with integrated modular distribution that can be right-sized to your data center power requirements. With scalable power, distribution and run-time, this UPS grows with your data center up to 160kW/160kVA. Suitable for small to medium data centers or individual zones of large data centers.

**Model Name**
Symmetra PX 96kW Scalable to 160kW, 400V w/ Integrated Modular Distribution

**Includes**

**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, 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, 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**
96.0 KW / 96.0 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

### Output Frequency (sync to mains)
Double Conversion Online

### Waveform Type
Sine wave

### Output Connections
(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% 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
240 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
197 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
9

### 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
320 A

### Maximum Available Short Circuit Current
6 kA

### Efficiency in Battery Operation
94.00 %

### End of Discharge Maximum Battery Current
332 A

### Overload Operation
10 minutes @ 125% and 60 seconds @ 150%

### Communications & Management
Interface Port(s)
DB-9 RS-232, SmartSlot

### Available SmartSlot™ 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
1814.0 kg
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<thead>
<tr>
<th>Service Description</th>
<th>Value</th>
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<tr>
<td>Shipping Weight</td>
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<tr>
<td>Shipping Width</td>
<td>1696.0 mm</td>
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<td>1210.0 mm</td>
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<td>Color</td>
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</tbody>
</table>

**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**: 17244.000 BTU/hr
- **Protection Class**: IP 20, NEMA 1

**Conformance**

- **Approvals**: EN 50091-1, EN/IEC 62040-1-1, EN/IEC 62040-2, EN/IEC 62040-3, Eurobat General Purpose, ISO 14001, ISO 9001, VFI-SS-111
- **Standard warranty**: 1 year on-site repair or replace with factory authorized Start-Up