# Product datasheet

Specifications



## Symmetra PX 160kW, 400V

SY160K160H

## Overview

| | |
|---|---|
| **Presentation** | 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. |

## Main

| | |
|---|---|
| **Main input voltage** | 400 V AC 3 phases<br>380 V AC 3 phases<br>415 V AC 3 phases |
| **Other input voltage** | 380 V<br>415 V |
| **Maximum input current** | 295 A |
| **Max short time withstand current** | 30 kA |
| **Input harmonic distortion** | Less than 5 % for full load |
| **Load power factor** | 0.5 leading to 0.5 lagging |
| **Cos phi** | 0.99 |
| **Switching current capacity** | 315 A |
| **Efficiency at full load** | 340...477 V |
| **Input connection** | 1 hard wire 5-wire (3P + N + E) |
| **Input frequency** | 40...70 Hz |
| **Output voltage** | 400 V AC 3 phases<br>380 V AC 3 phases<br>415 V AC 3 phases |
| **Rated power in W** | 160000 W |
| **Rated power in VA** | 160000 VA |
| **Output connection** | Hard wire 5-wire (3P + N + E) for 1 zone(s) |
| **Bypass type** | Built-in static bypass |
| **Harmonic distortion** | Less than 2 % |
| **Maximum configurable power in VA** | 160000 VA |
| **Maximum configurable power in W** | 160000 W |
| **Output harmonic distortion** | < 2% for 0 to 100% linear load and < 6% for full non-linear load |
| **Output overload operation** | 10 minutes at 125% and 60 seconds at 150% |
| **Output voltage tolerance** | +/- 1% static and +/- 5% at 100% load step |
| **UPS topology** | Double conversion online |
| **Waveform type** | Sine wave |
| **Efficiency** | 94 % (in battery operation) |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: 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

| | |
|---|---|
| **Output frequency** | 50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains<br>50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised |
| **Neutral output current** | 400 A |
| **Required output current protection** | 250 A |

## Graphs

| | |
|---|---|
| **Run Time** | View Runtime Graph |
| **Efficiency** | View Efficiency Graph |

## Complementary

| | |
|---|---|
| **Additional information** | Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage |
| **Maximum short-circuit current** | 10 kA |
| **Max current discharge** | 552 A |
| **Battery overload operation** | 10 minutes at 125% and 60 seconds at 150% |
| **Battery type** | Lead-acid internal included<br>Lead-acid internal |
| **Control panel** | Multifunction LCD status and control console |
| **Emergency power off** | Yes |
| **Free slot** | 2 |
| **Preinstalled device** | Network management card with CAN |
| **UPS connectivity** | Pre-installed network management card 3 |
| **Color** | Black |
| **Height** | 199.1 cm |
| **Width** | 180 cm |
| **Depth** | 107 cm |
| **Product weight** | 2812 kg |
| **USB compatible** | No |
| **Provided equipment** | Network management card<br>Start-up service<br>User manual |
| **Bypass wiring configuration** | 5 wire (3P + N + E) |
| **Max bypass input current** | 250 A |
| **Bypass current protection** | 250 A |
| **Number of power module filled slots** | 10 |
| **Number of power module free slots** | 0 |
| **Redundant** | Yes |

## Environment

| | |
|---|---|
| **Product certification** | EUROBAT |
| **Standard** | EN 50091-1<br>EN/IEC 62040-1-1<br>EN/IEC 62040-2<br>EN/IEC 62040-3<br>ISO 14001<br>ISO 9001<br>VFI-SS-111 |

| | |
|---|---|
| **Ambient air temperature for operation** | 0…40 °C |
| **Ambient air temperature for storage** | -15…40 °C |
| **Storage altitude** | 0…15240 m |
| **IP protection** | IP20 |
| **Relative humidity** | 0…95 % |
| **Storage relative humidity** | 0…95 % |
| **NEMA degree of protection** | NEMA 1 |
| **Acoustic level** | 63 dBA |
| **Heat dissipation** | 28741 Btu/h |
| **Operating altitude** | 0...3333 ft |

## Batteries & Runtime

| | |
|---|---|
| **Battery type** | VRLA |
| **Battery voltage** | +/- 192 V (split battery referenced to neutral) |
| **Extendable runtime** | 1 |
| **Included battery module** | 15 |
| **Empty battery slot** | 3 |
| **Typical recharge time** | 3.5 h |
| **RBC quantity** | 4 |
| **Overcurrent protection** | 945 A |
| **Battery design life** | 5…8 year(s) |
| **Discharge battery voltage** | +/- 154 V |
| **Battery charging power** | 14769 W rated |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 214 cm |
| **Package 1 Width** | 121 cm |
| **Package 1 Length** | 255.4 cm |
| **Package 1 Weight** | 3051 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 12 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Use Better

#### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No** |
| SCIP Number | **F4c2965e-f80d-4830-8cd4-be926afb0f45** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |

#### Energy efficiency

| | |
|---|---|
| Energy Efficiency Optimized | **Energy efficient product** |

### Use Longer

#### Lifetime extension

| | |
|---|---|
| Repair | **No** |

### Use Again

#### Repack and remanufacture

| | |
|---|---|
| Removable battery | **Yes** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |