



## Overview

|              |                                                                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Presentation | Modular, high-efficiency 3-phase UPS that is scalable as your Data Center grows up to 96kW/96kVA. Suitable for small and medium Data Center applications. |
| Lead time    | Usually Ships within 3 Weeks                                                                                                                              |

## General

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| Provided equipment                  | Network management card<br>Start-up service<br>User manual |
| Product web sub-family              | Symmetra PX 96/160kW                                       |
| Bypass wiring configuration         | 5 wire (3P + N + E)                                        |
| Max bypass input current            | 139 A                                                      |
| Bypass current protection           | 160 A                                                      |
| Performance multiplier              | 0.350208                                                   |
| Number of tare power                | 360 W                                                      |
| Number of power module free slots   | 8                                                          |
| Number of power module filled slots | 2                                                          |
| Redundant                           | Yes                                                        |
| Size UPS version                    | Internetworking<br>Server<br>Telecom                       |
| UPS size                            | L                                                          |
| Value multiplier                    | 0.81                                                       |

## Physical

|                     |               |
|---------------------|---------------|
| Number of rack unit | 42U           |
| Colour              | Black         |
| Depth               | 107 cm        |
| Height              | 199.1 cm      |
| Mounting location   | Front         |
| Mounting preference | No preference |
| Net weight          | 1029 kg       |

|                    |                    |
|--------------------|--------------------|
| Mounting mode      | Not rack-mountable |
| Two post mountable | 0                  |
| USB compatible     | No                 |
| Width              | 120 cm             |

## Input

|                                  |                                 |
|----------------------------------|---------------------------------|
| Network frequency                | 40...70 Hz                      |
| Number of input connectors       | 1 hard wire 5-wire (3P + N + E) |
| Input voltage limits             | 340...477 V                     |
| Maximum input current            | 59 A                            |
| Switching current capacity       | 200 A                           |
| Max short time withstand current | 30 kA                           |
| Input harmonic distortion        | Less than 5 % for full load     |
| Input voltage                    | 400 V 3 phases                  |
| Load power factor                | 0.5 leading to 0.5 lagging      |
| Cos phi                          | 0.99                            |

## Output

|                                    |                                                                                                                |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Rated power in W                   | 32000 W                                                                                                        |
| Maximum configurable power in W    | 96000 W                                                                                                        |
| Harmonic distortion                | Less than 2 %                                                                                                  |
| 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 |
| UPS type                           | Double conversion online                                                                                       |
| Wave type                          | Sine wave                                                                                                      |
| Output connector type              | Hard wire 5-wire (3P + N + E) 1                                                                                |
| 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%                                                                      |
| Required output current protection | 160 A                                                                                                          |
| Neutral output current             | 80 A                                                                                                           |
| Bypass type                        | Built-in static bypass                                                                                         |
| Curve equation                     | Efficiency                                                                                                     |
| Curve load maximum                 | 100 %                                                                                                          |
| Curve X-axis maximum               | 100 %                                                                                                          |
| 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                         | 95 % (full load)<br>95 % (half load)<br>94 % (in battery operation)                                            |
| Graph display                      | 1                                                                                                              |
| Output voltage                     | 230 V<br>400 V 3 phases                                                                                        |
| Maximum configurable power in VA   | 96000 VA                                                                                                       |
| Rated power in VA                  | 32000 VA                                                                                                       |

## Conformance

|                        |            |
|------------------------|------------|
| Product certifications | EUROBAT    |
| Standards              | EN 50091-1 |

## Environmental

|                                       |                   |
|---------------------------------------|-------------------|
| Ambient air temperature for operation | 0...40 °C         |
| Relative humidity                     | 0...95 %          |
| Operating altitude                    | 0...3333 ft       |
| Ambient air temperature for storage   | -15...40 °C       |
| Storage Relative Humidity             | 0...95 %          |
| Storage altitude                      | 0.00...15240.00 m |
| Acoustic level                        | 63 dBA            |
| Heat dissipation                      | 5748 Btu/h        |
| Show note OP temperature              | No                |
| NEMA degree of protection             | NEMA 1            |
| IP degree of protection               | IP20              |

## Batteries & Runtime

|                                        |                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Battery type                           | VRLA                                                                                                                     |
| Number of battery filled slots         | 3                                                                                                                        |
| Number of battery free slots           | 6                                                                                                                        |
| Battery recharge time                  | 3.5 h                                                                                                                    |
| Number of battery replacement quantity | 4                                                                                                                        |
| Additional information                 | Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage                                                       |
| Liquid value                           | 0                                                                                                                        |
| Battery voltage                        | +/- 192 V (split battery referenced to neutral)                                                                          |
| Discharge battery voltage              | +/- 154 V                                                                                                                |
| Overcurrent protection                 | 189 A                                                                                                                    |
| Maximum short-circuit current          | 2 kA                                                                                                                     |
| Max current discharge                  | 111 A                                                                                                                    |
| Battery overload operation             | 10 minutes at 125% and 60 seconds at 150%                                                                                |
| Battery curve                          | P                                                                                                                        |
| Battery charger power                  | 2954 W rated                                                                                                             |
| Battery design life                    | 5...8 year(s)                                                                                                            |
| Battery power in VAh                   | 10368 VAh runtime                                                                                                        |
| Battery option                         | SYBT9-B4 6 31104 VAh<br>SYCFXR9-9 1 62208 VAh<br>SYCFXR9-9 2 93312 VAh<br>SYCFXR9-9 3 124416 VAh<br>SYBT9-B4 3 20736 VAh |
| Extended runtime                       | 1                                                                                                                        |

## Communications & Management

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Free slots          | 2                                                                           |
| Preinstalled device | Network management card with CAN                                            |
| Control panel       | Multifunction LCD status and control console                                |
| Alarm               | Alarm when on battery : distinctive low battery alarm : configurable delays |
| Emergency power off | Yes                                                                         |

## Packing Units

|                  |         |
|------------------|---------|
| Package 1 Weight | 1124 kg |
|------------------|---------|

|                  |          |
|------------------|----------|
| Package 1 Height | 214 cm   |
| Package 1 width  | 169.6 cm |
| Package 1 Length | 121 cm   |

### Offer Sustainability

|                   |                                            |
|-------------------|--------------------------------------------|
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |
|-------------------|--------------------------------------------|

### Contractual warranty

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