

Product data sheet

Specifications



Symmetra PX 16kW All-In-One, Scalable to 48kW, 400V

SY16K48H-PD


Overview

| | |
|--------------|--|
| Presentation | Scalable power, runtime & distribution in a high-density, single-frame design. This high-efficiency 3-phase UPS scales as your data center grows up to 48kW/48kVA. Suitable for small & medium data center applications. |
| Lead time | Usually Ships within 2 Weeks |

Main

| | |
|-----------------------|---|
| Main Input Voltage | 400 V 3 phases |
| Other Input Voltage | 380 V 400 V 415 V |
| Main Output Voltage | 230 V 400 V 3 phases |
| Other Output Voltage | 380 V 400 V 415 V |
| Rated power in W | 16000 W |
| Rated power in VA | 16000 VA |
| Output connector type | Hard wire 5-wire (3P + N + E) 1 |
| Battery type | VRLA |
| Provided equipment | Network management card Start-up service |

Batteries & Runtime

| | |
|--|--|
| Run Time | View Runtime Graph  |
| Number of battery filled slots | 2 |
| Number of battery free slots | 2 |
| Battery recharge time | 3 h |
| Number of battery replacement quantity | 4 |
| Additional information | Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage |
| Battery voltage | +/- 192 V (split battery referenced to neutral) |
| Discharge battery voltage | +/- 154 V |
| Overcurrent protection | 504 A |
| Maximum short-circuit current | 1 kA |
| Max current discharge | 55 A |
| Battery overload operation | 10 minutes at 125% and 60 seconds at 150% |

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

| | |
|-----------------------|---------------|
| Battery charger power | 2296 W rated |
| Battery design life | 5...8 year(s) |
| Extended runtime | 1 |

General

| | |
|-------------------------------------|---|
| Bypass wiring configuration | 5 wire (3P + N + E) |
| Bypass voltage tolerance | +/- 10 % settable from +/- 4/6/8 and 10 % |
| Max bypass input current | 80 A |
| Bypass current protection | 80 A |
| Number of power module free slots | 0 |
| Number of power module filled slots | 1 |
| Redundant | Yes |

Physical

| | |
|----------------|----------|
| Colour | Black |
| Height | 199.1 cm |
| Width | 60 cm |
| Depth | 107 cm |
| net weight | 537 kg |
| USB compatible | No |

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 | 33 A |
| Switching current capacity | 100 A |
| Max short time withstand current | 30 kA |
| Input harmonic distortion | Less than 5 % for full load |
| Input protection type | GL fuse |
| Load power factor | 0.5 leading to 0.5 lagging |
| Input Power Factor at Full Load | 0.99 |

Output

| | |
|---------------------------------|--|
| Maximum configurable power in W | 48000 W |
| Harmonic distortion | Less than 2 % |
| Output frequency | 50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised 60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised |
| UPS type | Double conversion online |
| Wave type | Sine wave |
| Output voltage tolerance | +/- 1% static and +/- 5% at 100% load step |

| | |
|------------------------------------|---|
| 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 | 100 A |
| Bypass type | Built-in static bypass |
| Efficiency | 95 % (full load) 95 % (half load) 94 % (in battery operation) |
| Maximum configurable power in VA | 48000 VA |

Conformance

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|------------------------|---|
| Product certifications | EUROBAT |
| Standards | EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 ISO 14001 ISO 9001 VFI-SS-111 |

Environmental

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|---------------------------------------|-----------------------------------|
| 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 | 0.0000000000...15240.0000000000 m |
| Acoustic level | 61 dBA |
| heat dissipation | 2573 Btu/h |
| NEMA degree of protection | NEMA 1 |

Communications & Management

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|---------------------|--|
| Free slots | 2 |
| Preinstalled device | Network management card with CAN |
| control panel | Multifunction LCD status and control console |
| Emergency power off | Yes |

Packing Units

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|------------------------------|---------|
| 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 | 84.8 cm |
| Package 1 Weight | 578 kg |

Contractual warranty

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)

Eu Rohs Directive

Not compliant
