

Product data sheet

Specifications



Symmetra PX 125kW Scalable to 250kW with Maintenance Bypass and Distribution, No Batteries

SY125K250DR-PDNB

Overview

Presentation A high-performance, 3-phase, modular, scalable, power protection solution with industry-leading efficiency, capacity, and performance for medium to large data centers and mission critical environments.

Lead time Usually Ships within 6 Weeks

Main

Main Input Voltage 480 V 3 phase
400 V 3 phase

Other Input Voltage 415 V

Main Output Voltage 480 V 3 phase
400 V 3 phase

Other Output Voltage 415 V

Kw Rating 125000 W

Rated power in VA 125000 VA

Output connector type Hard Wire 4-wire (3PH + G) 1
Hard Wire 5-wire (3PH + N + G) 1

Battery Type External battery system

Provided equipment Assembly service
Installation guide
Start-Up Service
User Manual
Web/SNMP Management Card

Batteries & Runtime

Battery Slots Empty 0

Battery power in VAH 0 VAh runtime

Extendable Run Time 1

General

Bypass Voltage Tolerance +/-10% settable from +/-4/6/8 and 10%

Number of power module free slots 5

Number of power module filled slots 5

Redundant Yes

Physical

| | |
|----------------|--------------------------|
| Color | Black |
| Height | 78.39 in (199.1 cm) |
| Width | 62.99 in (160 cm) |
| Depth | 42.13 in (107 cm) |
| Net Weight | 2705.07 lb(US) (1227 kg) |
| USB compatible | No |

Input

| | |
|---------------------------------------|--|
| Input Frequency | 40 - 70 Hz auto-sensing |
| Number of input connectors | 1 Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G) |
| Efficiency at full load | 408...552 V 480 V |
| Maximum Short Circuit Withstand (Icw) | 50 kA |
| Input Total Harmonic Distortion | Less than 5% for full load |
| Input protection type | 3-pole breaker |
| Load power factor | 0.5 leading to 0.5 lagging |
| Input Power Factor at Full Load | 0.99 |

Output

| | |
|----------------------------------|--|
| Max Configurable Power (Watts) | 250000 W |
| Harmonic distortion | Less than 2% |
| Output Frequency (sync to mains) | 50 Hz sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal not synced 50 Hz +/- 0.1 % for 50 Hz nominal not synced 60 Hz sync to mains |
| Topology | Double Conversion Online |
| Waveform Type | Sine wave |
| Output voltage tolerance | +/-1% static and +/- 5% at 100% load step |
| Output Voltage THD | < 2% linear load and < 3% non-linear load |
| Overload Operation | 10 minutes @ 125% and 60 seconds @ 150% |
| Bypass type | Built-in Maintenance Bypass Built-in Static Bypass 96 % in battery operation) |
| Maximum configurable power in VA | 500000 VA |
| Transfer Time | 2ms typical |

Conformance

| | |
|------------------------|---|
| Product Certifications | cUL Listed UL Listed |
| Standards | CSA C22.2 No.107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 OSHDP UL 1778 UL 60950-1 |

Environmental

| | |
|---------------------------------------|----------------------------------|
| Ambient Air Temperature for Operation | 32...104 °F (0...40 °C) |
| Relative Humidity | 0...95 % |
| Operating altitude | 0...3333 ft |
| Ambient Air Temperature for Storage | -22...158 °F (-30...70 °C) |
| Storage Relative Humidity | 0...95 % |
| Storage altitude | 0...50000 ft (0.00...15240.00 m) |
| Acoustic level | 54 dBA |
| Heat dissipation | 15473 Btu/h |
| NEMA degree of protection | NEMA 1 |
| IP degree of protection | IP20 |

Communications & Management

| | |
|--------------------------------|--|
| Free slots | 1 |
| Pre-Installed SmartSlot™ Cards | Network management card 2 with environmental monitoring, out of band access and Modbus |
| Control panel | Touch Screen LCD User Interface |
| Emergency Power Off (EPO) | Optional |

Packing Units

| | |
|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 84.65 in (215 cm) |
| Package 1 Width | 50.00 in (127 cm) |
| Package 1 Length | 73.62 in (187 cm) |
| Package 1 Weight | 3035.77 lb(US) (1377 kg) |

Offer Sustainability

| | |
|-----------------------------|--|
| EU RoHS Directive | Under investigation |
| China RoHS Regulation | China RoHS declaration |
| Optimized Energy Efficiency | Energy efficient product |

Contractual warranty

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

Recommended replacement(s)