Product datasheet

Specifications

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

SY48K48H-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	48000 W
Rated Power In Va	48000 VA
Battery Type	VRLA
Provided Equipment	Network management card Start-up service

Batteries & Runtime

Run Time	View Runtime Graph
Efficiency	View Efficiency Graph
Number Of Battery Filled Slots	4
Number Of Battery Free Slots	0
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	1008 A
Maximum Short-Circuit Current	4 kA
Max Current Discharge	165 A
Battery Overload Operation	10 minutes at 125% and 60 seconds at 150%

Battery Charger Power	4593 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	3
Redundant	Yes

Physical

Colour	Black
Height	199.1 cm
Width	60 cm
Depth	107 cm
Net Weight	796 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	98 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	94 % (in battery operation)
Maximum Configurable Power In Va	48000 VA

Conformance

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

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	61 dBA
Heat Dissipation	7719 Btu/h
Nema Degree Of Protection	NEMA 1

Communications & Management

Free Slots	2
Preinstalled Device	Network management card with CAN
Control Panel	Multifunction LCD status and control console
Emergency Power Off	Yes

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	84.8 cm
Package 1 Weight	858 kg

Contractual warranty

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

Sustainability

Green Premium^{TM} 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-CO_2 products.

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Energy Efficient

Resource performance

✓ Energy Efficient Product

Eu Rohs Directive   Under investigation