

Product datasheet

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.

Main

Main input voltage	400 V AC 3 phases 380 V AC 3 phases 415 V AC 3 phases
Other input voltage	380 V 400 V 415 V
Maximum input current	33 A
Max short time withstand current	30 kA
Input harmonic distortion	Less than 5 % for full load
Input protection	GL fuse
Load power factor	0.5 leading to 0.5 lagging
Cos phi	0.99
Switching current capacity	100 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 380 V AC 3 phases 415 V AC 3 phases
Other output voltage	380 V 400 V 415 V
Rated power in W	16000 W
Rated power in VA	16000 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	48000 VA
Maximum configurable power in W	48000 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	95 % (full load) 95 % (half load) 94 % (in battery operation)
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
Required output current protection	100 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	1 kA
Max current discharge	55 A
Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery type	Lead-acid internal included 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	60 cm
Depth	107 cm
Product weight	537 kg
USB compatible	No
Provided equipment	Network management card Start-up service
Bypass voltage tolerance	+/- 10 % settable from +/- 4/6/8 and 10 %
Bypass wiring configuration	5 wire (3P + N + E)
Max bypass input current	80 A
Bypass current protection	80 A
Number of power module filled slots	1
Number of power module free slots	0
Redundant	Yes

Environment

Product certification	EUROBAT
Standard	EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 ISO 14001 ISO 9001 VFI-SS-111
Ambient air temperature for operation	0...40 °C
Ambient air temperature for storage	-15...40 °C
Storage altitude	0...15240 m
Relative humidity	0...95 %
Storage relative humidity	0...95 %
NEMA degree of protection	NEMA 1
Acoustic level	61 dBA
Heat dissipation	2573 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	2
Empty battery slot	2
Typical recharge time	3 h
RBC quantity	4
Overcurrent protection	504 A
Battery design life	5...8 year(s)
Discharge battery voltage	+/- 154 V
Battery charging power	2296 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	84.8 cm
Package 1 Weight	578 kg

Contractual warranty

Warranty (in months)	12
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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

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

Use Longer




Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

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