



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

General

Provided equipment	Network management card Start-up service
Product web sub-family	Symmetra PX 48kW
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
Performance multiplier	0.350208
Number of tare power	490 W
Number of power module free slots	0
Number of power module filled slots	3
Redundant	Yes
Size UPS version	Internetworking Server 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	796 kg
Mounting mode	Not rack-mountable
Two post mountable	0
USB compatible	No
Width	60 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
Inputvolt_other	380 V 400 V 415 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
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	48000 W
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
Outputvolt_other	380 V 400 V 415 V
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
Curve equation	Efficiency
Curve fixed loss	0.0105
Curve load maximum	100 %
Curve load minimum	2 %
Curve proportional loss	0.0113
Curve square loss	0.0314
Curve X-axis maximum	100 %
Curve test cond ID	Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and balanced resistive load (PF = 1.0) output.
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	94 % (in battery operation)
Graph display	1
Output voltage	230 V 400 V 3 phases
Maximum configurable power in VA	48000 VA
Rated 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
Show note OP temperature	No
NEMA degree of protection	NEMA 1

Batteries & Runtime

Battery type	VRLA
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
Liquid value	0
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 curve	P
Battery charger power	4593 W rated
Battery design life	5...8 year(s)
Battery power in VAh	13824 VAh runtime
Battery option	SYCFXR48-9 1 44928 VAh SYCFXR48-9 2 76032 VAh SYCFXR48-9 3 107136 VAh SYCFXR48-9 4 138240 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	858 kg
Package 1 Height	214 cm
Package 1 width	84.8 cm
Package 1 Length	121 cm

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Optimized Energy Efficiency	Energy efficient product

Contractual warranty

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