



Overview

Presentation	A high-efficiency 3-phase UPS with integrated modular distribution that can be right-sized to your data center power requirements. With scalable power, distribution and run-time, this UPS grows with your data center up to 160kW/160kVA. Suitable for small to medium data centers or individual zones of large data centers.
Lead time	Usually Ships within 3 Weeks

General

Provided equipment	Network management card Start-up service User manual
Product web sub-family	Symmetra PX 96/160kW
Bypass wiring configuration	5 wire (3P + N + E)
Max bypass input current	250 A
Bypass current protection	250 A
Performance multiplier	0.350208
Number of tare power	880 W
Number of power module free slots	4
Number of power module filled slots	6
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	1814 kg
Mounting mode	Not rack-mountable
Two post mountable	0
USB compatible	No
Width	120 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
Maximum input current	197 A
Switching current capacity	315 A
Max short time withstand current	30 kA
Input harmonic distortion	Less than 5 % for full load
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	96000 W
Maximum configurable power in W	160000 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
UPS type	Double conversion online
Wave type	Sine wave
Output connector type	Hard wire 5-wire (3P + N + E) 1
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	250 A
Neutral output current	240 A
Bypass type	Built-in static bypass
Curve equation	Efficiency
Curve load maximum	100 %
Curve X-axis maximum	100 %
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	95 % (full load) 95 % (half load) 94 % (in battery operation)
Graph display	1
Output voltage	230 V 400 V 3 phases
Maximum configurable power in VA	160000 VA
Rated power in VA	96000 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	63 dBA
Heat dissipation	17244 Btu/h
Show note OP temperature	No
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

Batteries & Runtime

Battery type	VRLA
Number of battery filled slots	9
Number of battery free slots	0
Battery recharge time	3.5 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	320 A
Maximum short-circuit current	6 kA
Max current discharge	332 A
Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery curve	P
Battery charger power	8862 W rated
Battery design life	5...8 year(s)
Battery power in VAh	31104 VAh runtime
Battery option	SYCFXR9-9 1 62208 VAh SYCFXR9-9 2 93312 VAh SYCFXR9-9 3 124416 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	1963 kg
Package 1 Height	214 cm
Package 1 width	169.6 cm
Package 1 Length	121 cm

Offer Sustainability

EU RoHS Directive	Under investigation
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Contractual warranty

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