

Product data sheet

Characteristics

SY50K100F

Symmetra PX 50kW Scalable to 100kW, 208V with Startup



Overview

Presentation	A modular, high-efficiency 3-phase UPS that is scalable up to 100kW. Suitable for use in small to medium data centers and high density zones.
Lead time	Usually Ships within 3 Weeks

General

Provided equipment	Installation guide Network management card Start-up service User manual
Product web sub-family	Symmetra PX 100kW
Performance multiplier	0.350208
Number of tare power	750 W
Number of power module free slots	5
Number of power module filled slots	5
Redundant	Yes
UPS size	L
Value multiplier	0.81

Physical

Colour	Black
Depth	107 cm
Height	201.1 cm
Mounting preference	No preference
Net weight	1285.45 kg
Mounting mode	Not rack-mountable
Two post mountable	0
USB compatible	No
Width	120 cm

Input

Network frequency	40...70 Hz
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Input voltage limits	177...239 V 208 V
Maximum input current	332 A
Input harmonic distortion	Less than 5 % for full load
Input voltage	208 V 3 phases
Load power factor	0.5 leading to 0.5 lagging
Cos phi	0.99

Output

Rated power in W	50000 W
Maximum configurable power in W	100000 W
Harmonic distortion	Less than 2 %
Output frequency	57...63 Hz for 60 Hz nominal sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised 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
Bypass type	Built-in static bypass
Curve equation	Efficiency
Curve fixed loss	0.0132
Curve load maximum	100 %
Curve load minimum	2 %
Curve proportional loss	0.0161
Curve square loss	0.0274
Curve X-axis maximum	100 %
Curve test cond ID	Curve fit of data measured in accordance with the ENERGY STAR Test Method for Uninterruptible Power Supplies. All measurements taken in normal mode(s), at typical environmental conditions, with 208V/60Hz 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	94.7 % (in battery operation)
Graph display	1
Output voltage	120 V 208 V 208 V 3 phases
Maximum configurable power in VA	100000 VA
Rated power in VA	50000 VA
Transfer time	2 ms typical

Conformance

Standards	CSA C22.2 No 107.3-05 FCC part 15 class A ISO 14001 ISO 9001 UL 1778
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Environmental

Ambient air temperature for operation	0...40 °C
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Relative humidity	0...95 %
Operating altitude	0...3333 ft
Ambient air temperature for storage	-15...40 °C
Storage altitude	0.00...15240.00 m
Acoustic level	67 dBA
Show note OP temperature	No
NEMA degree of protection	NEMA 1

Batteries & Runtime

Battery type	VRLA
Number of battery filled slots	5
Number of battery free slots	4
Battery recharge time	2 h
Liquid value	0
Battery voltage	+/- 192 V (split battery referenced to neutral)
Discharge battery voltage	+/- 154 V
Maximum short-circuit current	30 kA
Max current discharge	351 A
Battery curve	P
Battery charger power	8597 W rated
Battery design life	5...8 year(s)
Battery power in VAH	17280 VAh runtime
Battery option	SYBT9-B4 2 24192 VAh SYBT9-B4 3 31104 VAh SYCFXR9 1 62208 VAh SYCFXR9 3 124416 VAh SYBT9-B4 1 20736 VAh SYBT9-B4 3 27648 VAh SYCFXR9 2 93312 VAh
Extended runtime	0

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

Packing Units

Package 1 Weight	1414.55 kg
Package 1 Height	214 cm
Package 1 width	169.6 cm
Package 1 Length	121 cm

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
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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