

Product data sheet

Specifications



Symmetra PX 20kW Scalable to 100kW, 208V with Startup

SY20K100F

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

Main

Main Input Voltage	208 V 3 phases
Main Output Voltage	120 V 208 V 208 V 3 phases
Rated power in W	20000 W
Rated power in VA	20000 VA
Output connector type	Hard wire 5-wire (3P + N + E) 1
Battery type	VRLA
Provided equipment	Installation guide Network management card Start-up service User manual

Batteries & Runtime

Run Time	View Runtime Graph
Efficiency	View Efficiency Graph
Number of battery filled slots	2
Number of battery free slots	7
Battery recharge time	2 h
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 charger power	3439 W rated
Battery design life	5...8 year(s)
Extended runtime	0

General

Number of power module free slots	8
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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Number of power module filled slots	2
Redundant	Yes

Physical

Colour	Black
Height	201.1 cm
Width	120 cm
Depth	107 cm
net weight	904.73 kg
USB compatible	No

Input

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

Output

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 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
Efficiency	94.7 % (in battery operation)
Maximum configurable power in VA	100000 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
Relative humidity	0...95 %
Operating altitude	0...3333 ft

Ambient air temperature for storage	-15...40 °C
Storage Relative Humidity	0...95 %
Storage altitude	0.0000000000...15240.0000000000 m
Acoustic level	67 dBA
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

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	169.6 cm
Package 1 Weight	996.18 kg

Contractual warranty

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

Green Premium™ 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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Energy Efficient

Resource performance

 Energy Efficient Product

Eu Rohs Directive

Not compliant

California Proposition 65

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov