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 phase
Main Output Voltage	120 V 208 V 208 V 3 phase
Kw Rating	20000 W
Rated power in VA	20000 VA
Output connector type	Hard Wire 5-wire (3PH + N + G) 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
Included Battery Modules	2
Battery Slots Empty	7
Typical recharge time	2 h
Battery Voltage	+/-192 V (split battery referenced to neutral)
End of Discharge Battery Voltage	+/-154 V
maximum short-circuit current	30 kA
End of Discharge Maximum Battery Current	351 A
Battery Charge Power (Watts)	3439 W rated
Battery design life	5…8 year(s)
Extendable Run Time	0

General

Number of power module free slots	8

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

color	Black
Height	79.2 in (201.1 cm)
Width	47.2 in (120 cm)
Depth	42.1 in (107 cm)
Net Weight	1994.59 lb(US) (904.73 kg)
USB compatible	No

Input

Input Frequency	40 - 70 Hz
Efficiency at full load	177...239 V 208 V
Maximum Input Current per Phase	332 A
Input Total 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

Max Configurable Power (Watts)	100000 W
Harmonic distortion	Less than 2%
Output Frequency (sync to mains)	57...63 Hz for 60 Hz nominal sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal not synced 50 Hz +/- 0.1 % for 50 Hz nominal not synced
Topology	Double Conversion Online
Waveform Type	Sine wave
Output voltage tolerance	+/-1% static and +/- 5% at 100% load step
Output Voltage THD	< 2% for 0 to 100% linear load and < 6% for full non-linear load
Bypass type	Built-in Static Bypass
Efficiency at full load	94.7 % in battery operation)
Maximum configurable power in VA	100000 VA
Transfer Time	2ms typical

Conformance

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

Environmental

Ambient Air Temperature for Operation	32…104 °F (0…40 °C)
Relative Humidity	0…95 %
Operating altitude	0...3333 ft

Ambient Air Temperature for Storage	5…104 °F (-15…40 °C)
Storage Relative Humidity	0…95 %
Storage altitude	0…50000 ft (0.0000000000…15240.0000000000 m)
acoustic level	67 dBA
NEMA degree of protection	NEMA 1

Communications & Management

Free slots	2
Pre-Installed SmartSlot™ Cards	Network management card with CAN
Control panel	Multi-function LCD status and control console

Ordering and shipping details

GTIN	731304282594

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	84.3 in (214 cm)
Package 1 Width	47.6 in (121 cm)
Package 1 Length	66.8 in (169.6 cm)
Package 1 Weight	2196.20 lb(US) (996.18 kg)

Contractual warranty

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

Sustainability

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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"

Image of product / Alternate images

Alternative

