Product data sheet

Specifications



Symmetra PX 50kW Scalable to 100kW, 208V with Startup, No Battery

SY50K100F-NB

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	50000 W
Rated power in VA	50000 VA
Output connector type	Hard Wire 5-wire (3PH + N + G) 1
Battery Type	External battery system
Provided equipment	Installation guide Network Management Card Start-Up Service User Manual

Batteries & Runtime

Run Time	View Runtime Graph
Efficiency	View Efficiency Graph
Extendable Run Time	0

General

Number of power module free slots	5
Number of power module filled slots	5
Redundant	Yes

Physical

color	Black
Height	79.2 in (201.1 cm)
Width	23.6 in (60 cm)
Depth	42.1 in (107 cm)
Net Weight	966.5 lb(US) (438.4 kg)
USB compatible	No

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

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 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
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

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	33.4 in (84.8 cm)
Package 1 Weight	1099.005 lb(US) (498.5 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	Under investigation