

Product data sheet

Specifications



APC Symmetra PX 125kW Scalable to 250kW with Maintenance Bypass Left, Distribution & No Batteries

SY125K250DL-PDNB

Overview

Presentation A high-performance, 3-phase, modular, scalable, power protection solution with industry-leading efficiency, capacity, and performance for medium to large data centers and mission critical environments.

Lead time Usually Ships within 6 Weeks

Main

Main Input Voltage 400 V 3 phase
480 V 3 phase

Other Input Voltage 400 V
415 V

Main Output Voltage 400 V 3 phase
480 V 3 phase

Other Output Voltage 380 V
415 V

Kw Rating 125000 W

Rated power in VA 125000 VA

Output connector type Hard Wire 4-wire (3PH + G) 1
Hard Wire 5-wire (3PH + N + G) 1

Battery Type External battery system

Provided equipment Assembly service
Installation guide
Start-Up Service
User Manual
Web/SNMP Management Card

Batteries & Runtime

Included Battery Modules 0

Battery Slots Empty 0

Typical recharge time 8 h

Battery power in VAH 0 VAh runtime

Extendable Run Time 1

General

Bypass Voltage Tolerance +/-10% settable from +/-4/6/8 and 10%

Number of power module free slots 5

Number of power module filled slots	5
-------------------------------------	---

Redundant	Yes
-----------	-----

Physical

Color	Black
-------	-------

Height	78.39 in (199.1 cm)
--------	---------------------

Width	62.99 in (160 cm)
-------	-------------------

Depth	42.13 in (107 cm)
-------	-------------------

Net Weight	2718.70 lb(US) (1233.18 kg)
------------	-----------------------------

USB compatible	No
----------------	----

Input

Input Frequency	40 - 70 Hz auto-sensing
-----------------	-------------------------

Number of input connectors	1 Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G)
----------------------------	--

Efficiency at full load	408...552 V 480 V
-------------------------	-------------------

Maximum Short Circuit Withstand (Icw)	50 kA
---------------------------------------	-------

Input Total Harmonic Distortion	Less than 5% for full load
---------------------------------	----------------------------

Input protection type	3-pole breaker
-----------------------	----------------

Load power factor	0.5 leading to 0.5 lagging
-------------------	----------------------------

Input Power Factor at Full Load	0.99
---------------------------------	------

Output

Max Configurable Power (Watts)	250000 W
--------------------------------	----------

Harmonic distortion	Less than 2%
---------------------	--------------

Output Frequency (sync to mains)	50 Hz sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal not synced 50 Hz +/- 0.1 % for 50 Hz nominal not synced 60 Hz sync to mains
----------------------------------	--

Crest factor	Unlimited
--------------	-----------

Topology	Double Conversion Online
----------	--------------------------

Waveform Type	Sine wave
---------------	-----------

Output voltage tolerance	+/-1% static and +/- 5% at 100% load step
--------------------------	---

Output Voltage THD	< 2% linear load and < 3% non-linear load
--------------------	---

Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
--------------------	---

Bypass type	Built-in Maintenance Bypass Built-in Static Bypass 96 % in battery operation)
-------------	---

Maximum configurable power in VA	500000 VA
----------------------------------	-----------

Transfer Time	2ms typical
---------------	-------------

Conformance

Product Certifications	cUL Listed UL Listed
------------------------	-------------------------

Standards	CSA C22.2 No.107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3
-----------	---

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	-22...158 °F (-30...70 °C)
Storage Relative Humidity	0...95 %
Storage altitude	0...50000 ft (0.00...15240.00 m)
Acoustic level	54 dBA
Heat dissipation	15473 Btu/h
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

Communications & Management

Free slots	1
Pre-Installed SmartSlot™ Cards	Network management card 2 with environmental monitoring, out of band access and Modbus
Control panel	Touch Screen LCD User Interface
Emergency Power Off (EPO)	Optional

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	84.65 in (215 cm)
Package 1 Width	50.00 in (127 cm)
Package 1 Length	73.62 in (187 cm)
Package 1 Weight	3043.37 lb(US) (1380.45 kg)

Offer Sustainability

EU RoHS Directive	Compliant EU RoHS Declaration
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Optimized Energy Efficiency	Energy efficient product

Contractual warranty

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

Recommended replacement(s)