Product datasheet

Specifications



Symmetra PX 160kW, 400V

SY160K160H

Overview

Presentation	Modular, high-efficiency 3-phase UPS that is scalable as your data center grows up to 160kW/160kVA. Suitable for small, medium & large data center applications.

Main

Main input voltage	400 V AC 3 phases 380 V AC 3 phases 415 V AC 3 phases
Other input voltage	380 V 415 V
Maximum input current	295 A
Max short time withstand current	30 kA
Input harmonic distortion	Less than 5 % for full load
Load power factor	0.5 leading to 0.5 lagging
Cos phi	0.99
Switching current capacity	315 A
Efficiency at full load	340...477 V
Input connection	1 hard wire 5-wire (3P + N + E)
Input frequency	40...70 Hz
Output voltage	400 V AC 3 phases 380 V AC 3 phases 415 V AC 3 phases
Rated power in W	160000 W
Rated power in VA	160000 VA
Output connection	Hard wire 5-wire (3P + N + E) for 1 zone(s)
Bypass type	Built-in static bypass
Harmonic distortion	Less than 2 %
Maximum configurable power in VA	160000 VA
Maximum configurable power in W	160000 W
Output harmonic distortion	< 2% for 0 to 100% linear load and < 6% for full non-linear load
Output overload operation	10 minutes at 125% and 60 seconds at 150%
Output voltage tolerance	+/- 1% static and +/- 5% at 100% load step
UPS topology	Double conversion online
Waveform type	Sine wave
Efficiency	94 % (in battery operation)

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

Output frequency	50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised
Neutral output current	400 A
Required output current protection	250 A

Graphs

Run Time	View Runtime Graph
Efficiency	View Efficiency Graph

Complementary

Additional information	Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
Maximum short-circuit current	10 kA
Max current discharge	552 A
Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery type	Lead-acid internal included Lead-acid internal
Control panel	Multifunction LCD status and control console
Emergency power off	Yes
Free slot	2
Preinstalled device	Network management card with CAN
UPS connectivity	Pre-installed network management card 3
Color	Black
Height	199.1 cm
Width	180 cm
Depth	107 cm
Product weight	2812 kg
USB compatible	No
Provided equipment	Network management card Start-up service User manual
Bypass wiring configuration	5 wire (3P + N + E)
Max bypass input current	250 A
Bypass current protection	250 A
Number of power module filled slots	10
Number of power module free slots	0
Redundant	Yes

Environment

Product certification	EUROBAT
Standard	EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 ISO 14001 ISO 9001 VFI-SS-111

Ambient air temperature for operation	0…40 °C
Ambient air temperature for storage	-15…40 °C
Storage altitude	0…15240 m
IP protection	IP20
Relative humidity	0…95 %
Storage relative humidity	0…95 %
NEMA degree of protection	NEMA 1
Acoustic level	63 dBA
Heat dissipation	28741 Btu/h
Operating altitude	0...3333 ft

Batteries & Runtime

Battery type	VRLA
Battery voltage	+/- 192 V (split battery referenced to neutral)
Extendable runtime	1
Included battery module	15
Empty battery slot	3
Typical recharge time	3.5 h
RBC quantity	4
Overcurrent protection	945 A
Battery design life	5…8 year(s)
Discharge battery voltage	+/- 154 V
Battery charging power	14769 W rated

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	255.4 cm
Package 1 Weight	3051 kg

Contractual warranty

Warranty (in months)	12

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**F4c2965e-f80d-4830-8cd4-be926afb0f45**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

Energy efficiency

Energy Efficiency Optimized	**Energy efficient product**

Use Again

Repack and remanufacture

Removable battery	**Yes**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**