



APC Symmetra PX 160kW 400V w/ Integrated Modular Distribution

Part Number: SY160K160H-PD



General

Bypass Connection	5 wire (3PH + N + G)
Bypass Voltage Tolerance	+/-10% settable from +/-4/6/8 and 10%
Max Bypass Input Current	250A
Bypass Protection Device	250A

Output

Output Power Capacity	160 kW / 160 kVA
Max Configurable Power	160 kW / 160 kVA
Nominal Output Voltage	230V,400V 3PH
Output Voltage Note	Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
Output Voltage Distortion	Less than 2%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Crest Factor	Unlimited
Waveform Type	Sine wave
Output Connections	(1) Hard Wire 5-wire (3PH + N + G)
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 n
Overload Operation	10 minutes @ 125% and 60 seconds @ 150%

Required Output Current Protection	250A
Neutral Output Current	400A
Bypass	Built-in Static Bypass

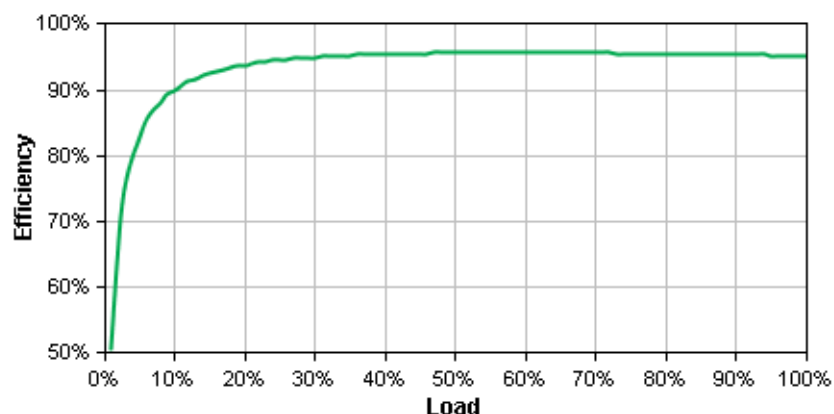
Input

Nominal Input Voltage	400V 3PH
Input Frequency	40 - 70 Hz
Input Connections	Hard Wire 5-wire (3PH + N + G)
Input voltage range for main operations	340 - 477V
Maximum Input Current	295A
Input Breaker Capacity	315A
Input Total Harmonic Distortion	Less than 5% for full load

Batteries & Runtime

Battery Type	VRLA
Included Battery Modules	15
Available Battery Slots	3
Typical recharge time	3.50 hour(s)
RBC™ Quantity	4
Nominal Battery Voltage	+/-192 V (split battery referenced to neutral)
discharge_battery_voltage	+/-154 V
DC Overcurrent Protection	945A
Maximum Available Short Circuit Current	10 kA
Efficiency in Battery Operation	94%
Maximum Battery Current at End of Discharge	550
Typical Backup Time at Half Load	25.6 minutes (80000 Watts)
Typical Backup Time at Full Load	8.7 minutes (160000 Watts)
Runtime Chart	Symmetra PX
Extended Run Options	APC Symmetra PX 160kW 400V w/ Integrated Modular Distribution

Energy Use/Efficiency



Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and resistive load output.

[View Enlarged Chart](#)

Communications & Management

Available SmartSlot™ Interface Quantity	2
Control panel	Multi-function LCD status and control console
Audible Alarm	Alarm when on battery : distinctive low battery alarm : configurable delays
Emergency Power Off (EPO)	Yes

Physical

Maximum Height	1991.00 mm
Maximum Width	1800.00 mm
Maximum Depth	1070.00 mm
Rack Height	42U
Net Weight	2806.00 KG
Shipping Weight	3037.00 KG
Shipping Height	2140.00 mm
Shipping Width	2235.00 mm
Shipping Depth	1210.00 mm
Color	Black

Environmental

Operating Environment	0 - 40 °C
Operating Relative Humidity	0%
Operating Elevation	0-999.9 meters
Storage Temperature	-15 - 40 °C
Storage Relative Humidity	0%
Storage Elevation	0-15000 meters
Audible noise at 1 meter from surface of unit	63.00 dBA
Online Thermal Dissipation	28741.00 BTU/hr
Protection Class	NEMA 1

Conformance

Regulatory Approvals	CE,EN 50091-1,EN/IEC 62040-3,EN/IEC 62040-1-1,FCC Part 15 Class A,VFI-SS-111
Standard Warranty	1 year on-site repair or replace with factory authorized Start-Up

*Except where noted, all prices are Estimated Resale Price (ERP) - Without Tax/VAT. Pricing in other locations and sites may vary.

**The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.

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