Symmetra™ PX

10–40 kW 208 V

Technical Specifications

01/2016

www.schneider-electric.com

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Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

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Important Safety Information

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

⚠DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

⚠WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety Precautions

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- The product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream circuit breakers, battery circuit breakers, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

The UPS System must be installed according to local and national regulations. Install the UPS according to:

- IEC 60364 (including 60364–4–41- protection against electric shock, 60364–4–42 - protection against thermal effect, and 60364–4–43 - protection against overcurrent), **or**
- NEC NFPA 70

depending on which one of the standards apply in your local area.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Install the UPS system in a temperature controlled area free of conductive contaminants and humidity.
- Install the UPS system on a non-inflammable, level and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

The UPS is not designed for and must therefore not be installed in the following unusual operating environments:

- Damaging fumes
- Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources
- Moisture, abrasive dust, steam or in an excessively damp environment
- Fungus, insects, vermin
- Salt-laden air or contaminated cooling refrigerant
- Pollution degree higher than 2 according to IEC 60664-1
- Exposure to abnormal vibrations, shocks, and tilting
- Exposure to direct sunlight, heat sources, or strong electromagnetic fields

Failure to follow these instructions will result in death or serious injury.

⚠WARNING

HAZARD OF OVERHEATING

Respect the space requirements around the UPS system and do not cover the product's ventilation openings when the UPS system is in operation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠WARNING

HAZARD OF EQUIPMENT DAMAGE

Do not connect the UPS output to regenerative load systems including photovoltaic systems and speed drives.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Technical Data

Model List

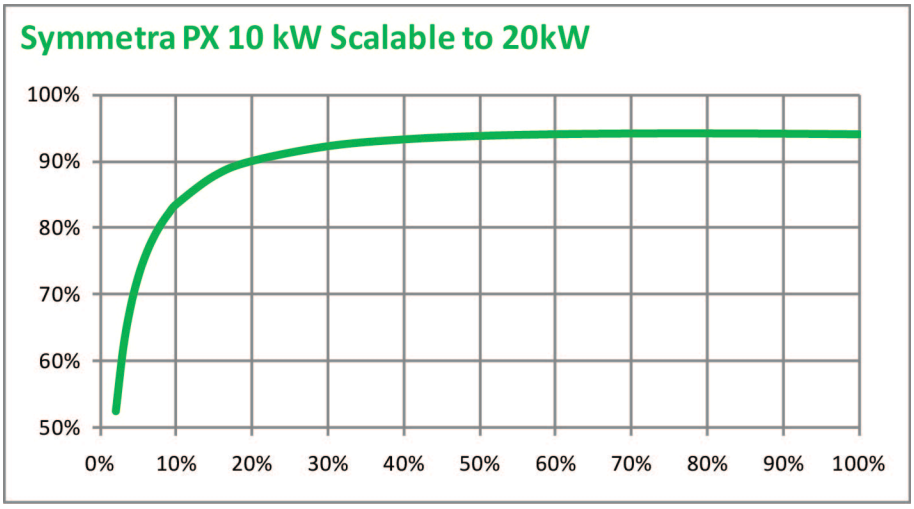
- Symmetra PX 10 kW Scalable to 40 kW N+1, 208 V
- Symmetra PX 20 kW Scalable to 40 kW N+1, 208 V
- Symmetra PX 30 kW Scalable to 40 kW N+1, 208 V
- Symmetra PX 40 kW Scalable to 40 kW N+1, 208 V

Efficiency

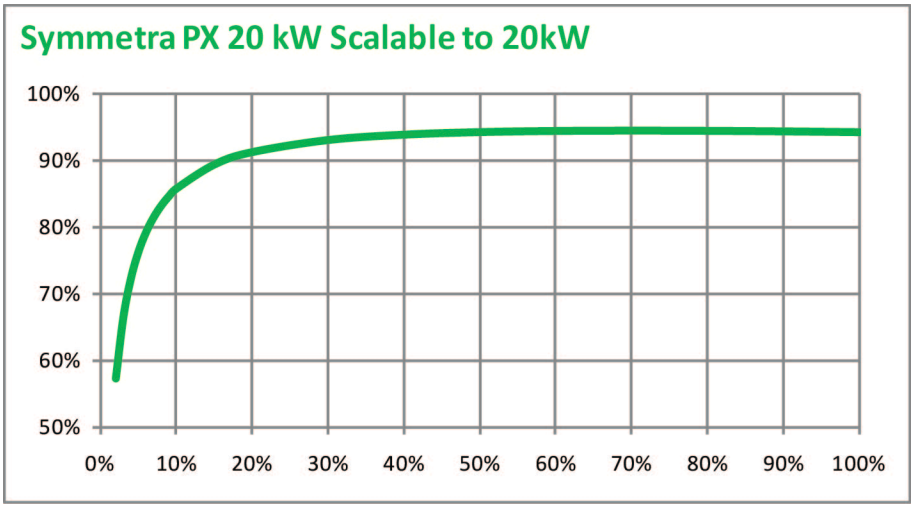
System	25% load	50% load	75% load	100% load
Symmetra PX 10 kW	91.39%	93.80%	94.19%	94.05%
Symmetra PX 20 kW	92.39%	94.28%	94.49%	94.27%
Symmetra PX 30 kW	92.72%	94.44%	94.59%	94.35%
Symmetra PX 40 kW	92.89%	94.52%	94.65%	94.38%

Efficiency Curves

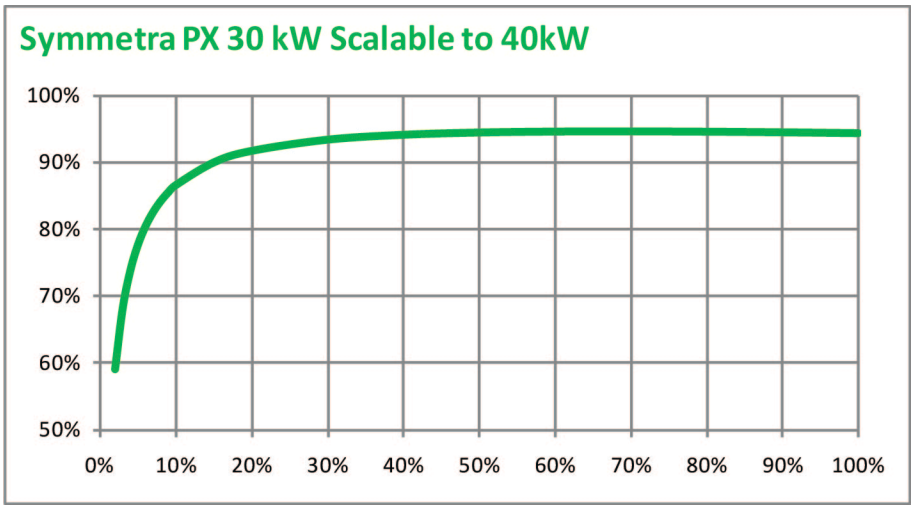
Symmetra PX 10 kW Scalable to 40 kW



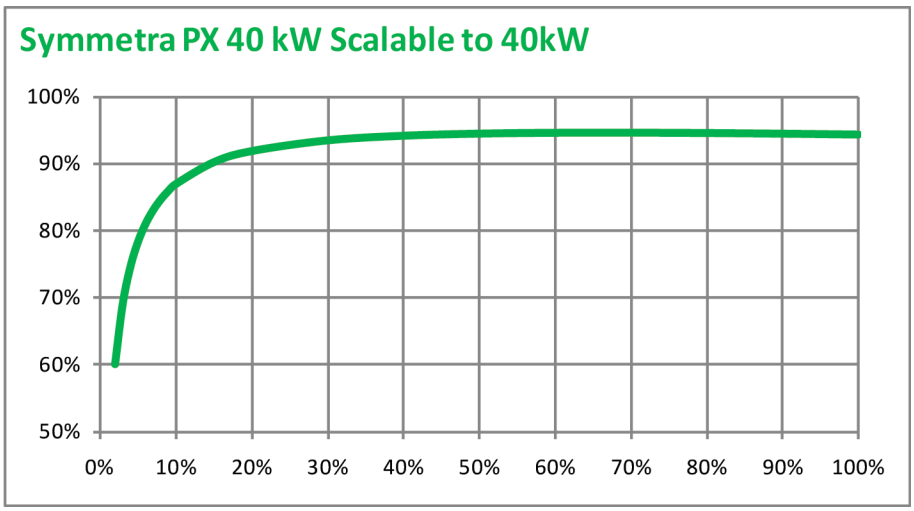
Symmetra PX 20 kW Scalable to 40 kW



Symmetra PX 30 kW Scalable to 40 kW



Symmetra PX 40 kW Scalable to 40 kW



Batteries

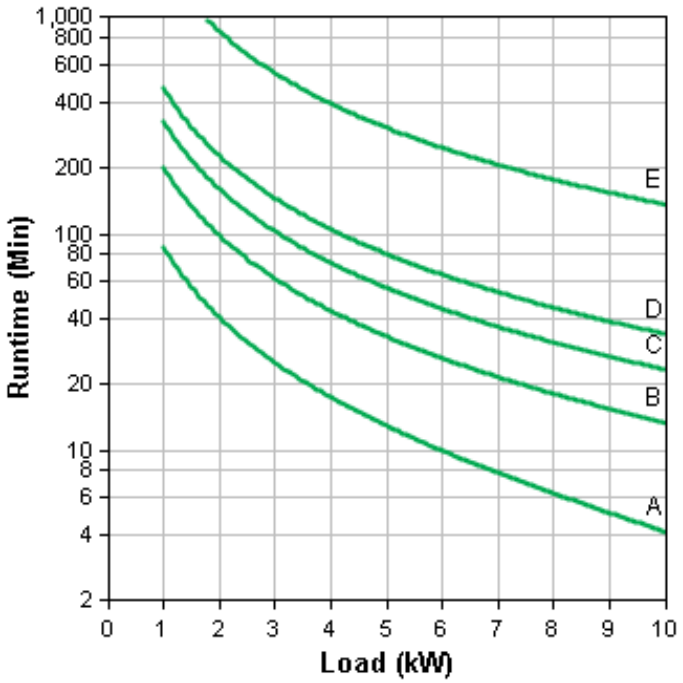
Efficiency DC to AC

	Symmetra PX 10 kW Scalable to 40 kW	Symmetra PX 20 kW Scalable to 40 kW	Symmetra PX 30 kW Scalable to 40 kW	Symmetra PX 40 kW
Efficiency at nominal battery voltage (%)	94%	94%	94%	94%

Battery Run-Times Schneider Electric Solutions

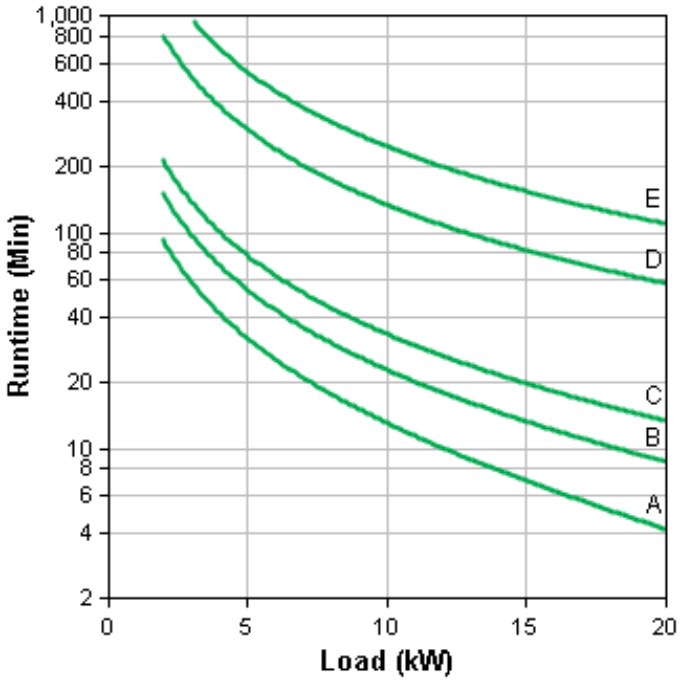
Symmetra PX 10 kW Scalable to 40 kW

Curve	Part Number(s)
A	SY10K40F
B	SY10K40F + (1)SYBT4
C	SY10K40F + (2)SYBT4
D	SY10K40F + (3)SYBT4
E	SY10K40F + (1)SYCFXR8–8



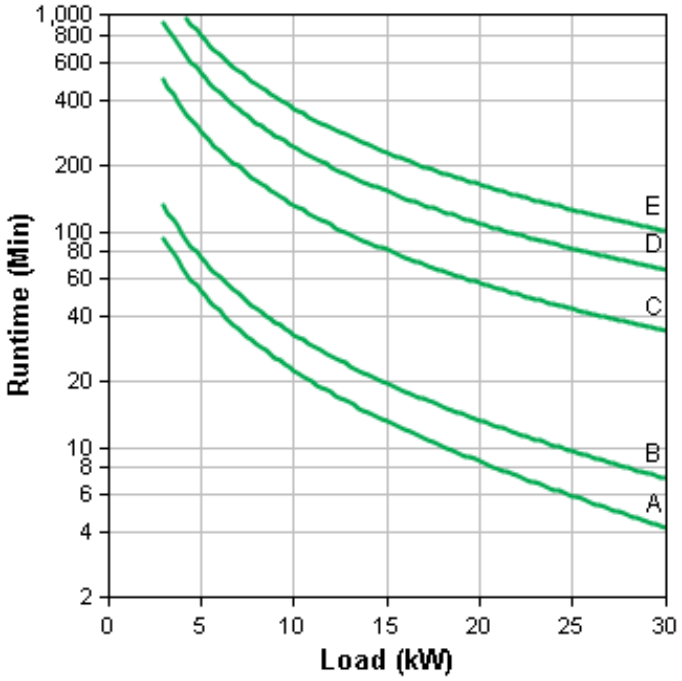
Symmetra PX 20 kW Scalable to 40 kW

Curve	Part Number(s)
A	SY20K40F
B	SY20K40F + (1)SYBT4
C	SY20K40F + (2)SYBT4
D	SY20K40F + (1)SYCFXR8–8
E	SY20K40F + (2)SYCFXR8–8



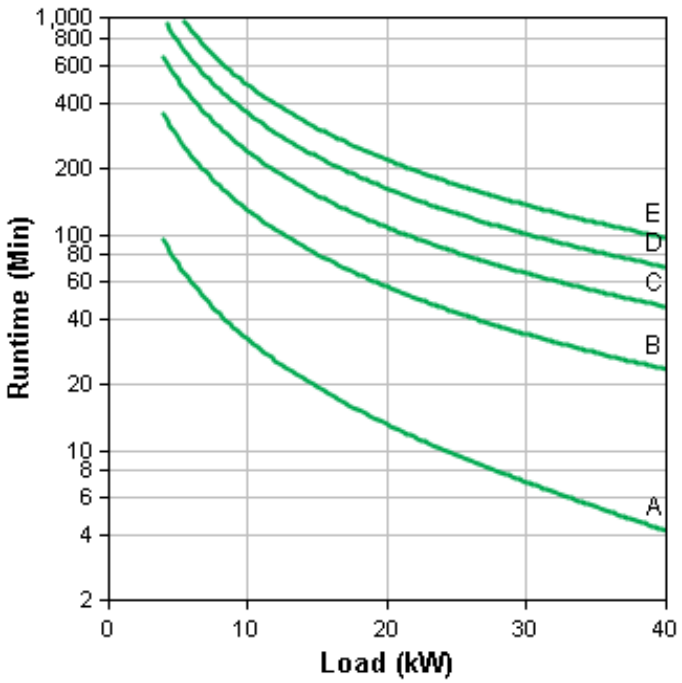
Symmetra PX 30 kW Scalable to 40 kW

Curve	Part Number(s)
A	SY30K40F
B	SY30K40F + (1)SYBT4
C	SY30K40F + (1)SYCFXR8–8
D	SY30K40F + (2)SYCFXR8–8
E	SY30K40F + (3)SYCFXR8–8



Symmetra PX 40 kW

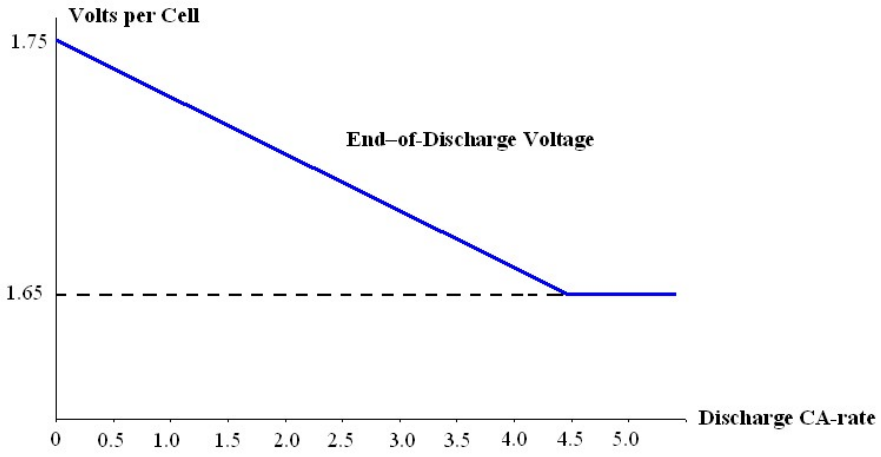
Curve	Part Number(s)
A	SY40K40F
B	SY40K40F + (1)SYCFXR8–8
C	SY40K40F + (2)SYCFXR8–8
D	SY40K40F + (3)SYCFXR8–8
E	SY40K40F + (4)SYCFXR8–8



Battery Discharge Current

	Symmetra PX 40 kW
Ibat @ Vbat nominal, 100% load	114.5
Ibat @ Vbat min, 100% load	139.1

End of Discharge Voltage



Battery Gassing Rates

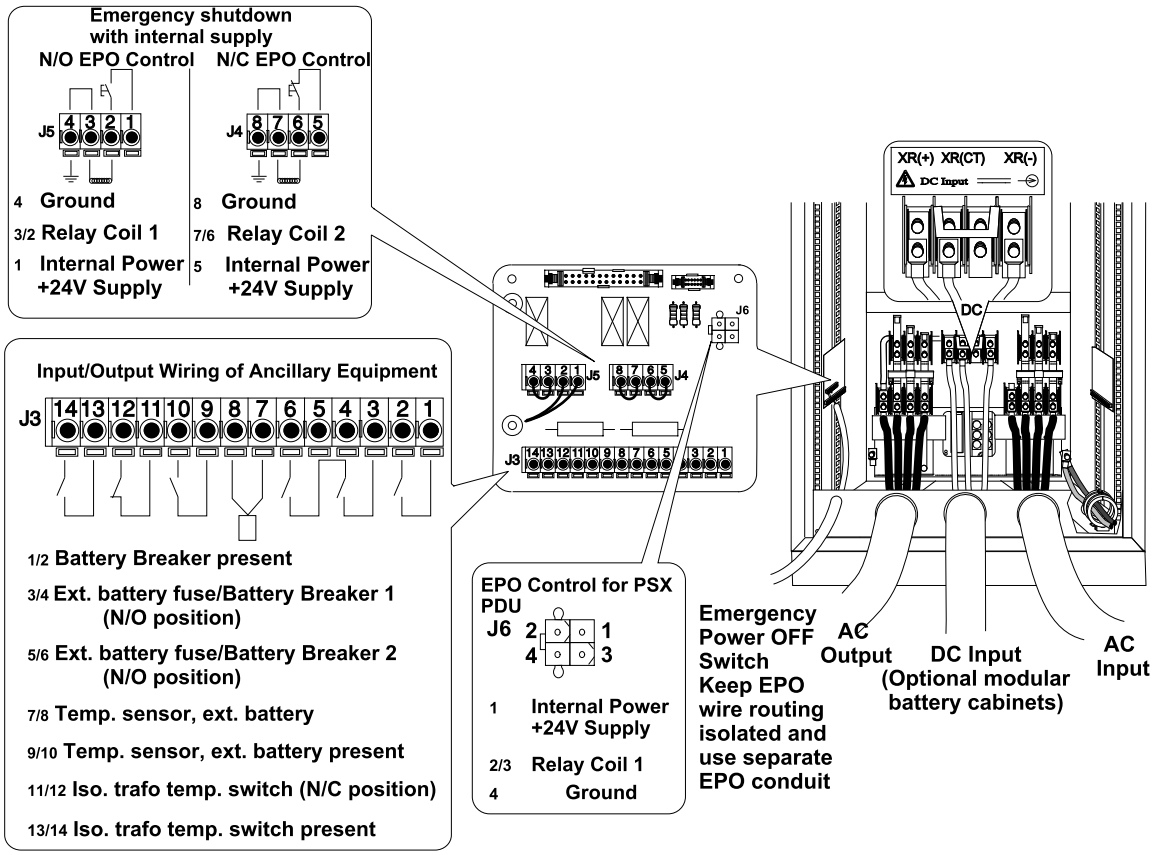
Battery Gassing Rate Per Shelf/String (Cubic Feet per Hour)			
1	**2**	**3**	**4**
0.00641	0.01282	0.01923	0.02565

NOTE: Calculation is based on battery gassing data provided by qualified vendors

Battery Material Safety Data Sheet

NOTE: For Material Safety Data Sheet (MSDS), go to the Knowledge Base *http://www.apc.com/site/support/us/en/faq/* and type “MSDS” to get the latest MSDS information.

Emergency Power Off



Communication and Management

Interface port	DB-9 RS-232, RJ-45 10 Base-T Ethernet for web/SNMP, Internal Modem for out of band management
Smart Slot Interface Quantity	2
Management software included	PowerChute Symmetra Bundle
Control panel	Multi-function LCD status and control console
Audible alarm	Alarm when on battery: distinctive low battery alarm: configurable delays

Network Management Card AP9630CH

This UPS is equipped with two Smartslots which enables the use of two Network Management Cards (NMC). By default, the UPS is shipped with the **AP9630CH** NMC.

AP9630CH Network Management Features:

Browser accessible

- View the user interface with a browser

Notification

- Be notified of problems to ensure that crucial situations are dealt with in a timely manner

Data logging

- Identify problematic trends before they escalate or export the data log for analysis

Event logging

- Pinpoint the timing and sequence of events leading up to an incident with the event log

PowerChute Network Shutdown compatible

- Reliable network-based shutdown of multiple servers on single or parallel UPS installation

StruxureWare Data Center Expert compatible

- An IT-ready, scalable monitoring system that collects, organizes, and distributes critical alerts, surveillance video and key information, providing a unified view of complex physical infrastructure environments from anywhere on the network

Compliance

- FCC Part 15 Class A
- UL 1778
- cUL Listed

Facility Planning

AC Input Specifications

NOTE: All current values are based on a 40 kW maximum configuration.

Connection type	3PH + N + PE
Input voltage (V)	3–Phase 208 V (166 V - 240 V)
Input frequency (Hz)	40–70
THDI	< 6% at full load
Nominal input current (A)	123
Maximum input current – continuous, at minimum mains voltage (A)	154
Input current protection (external to UPS, not supplied)[1]	175
Maximum Short Circuit Withstand (kA)	30

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

If your installation does not include an Isolation Transformer and a maintenance bypass enclosure (optional equipment), use a 175 Amp Class “J” current limiting fuse on each input phase.

Failure to follow these instructions will result in death or serious injury.

AC Bypass Input Specifications

Connection type	3PH + N + PE
Input frequency (Hz)	40 – 70
Nominal input current (A)	111

AC Output Specifications

Output voltage	208 V
Connection type	3PH + N + PE
Overload capacity	150% for 30 seconds (normal operation) 150% for 30 seconds (battery operation) 100% continuous (bypass operation) 1000% for 500 ms (bypass operation)
Nominal output current (A)	111
Maximum output current (in bypass only at 125% overload, per phase) (A)	139
Neutral output current with 100% switch mode load (A)[2]	192
Output current protection – external to UPS, not supplied (A)[3]	150

1. Input: 175 Amp. 3-Pole AC circuit breaker with 30 kAIC.
2. Neutral output wires: rate for 173% of output phase current if feeding all Switch Mode Power Supply loads without power factor correction.
3. Output: 150 Amp 3-pole AC circuit breaker with 30 kAIC.

Output frequency (on line, in bypass)[4]	Synchronized to input over the range 57 Hz – 63 Hz
Output frequency (on battery) (Hz)	50/60
Slew rate (Hz/s)	Programmable to 0.25, 0.5, 1, 2, 4, and 6
THDU	< 2% linear < 5% non-linear

Battery Specifications

Type	**VRLA**
Nominal voltage (VDC)	+/- 192 (96 cells at 2 V)
Float voltage (VDC)	+/- 219 (96 cells at 2 .28 V) [5]
End of discharge voltage at full load (VDC)[6]	+/- 158 (96 cells at 1.65 V)
Maximum charging power	4 kW (5 kW if redundant Power Module is present)[7]
Typical recharge time (to 80% of capacity)	3.5 hours

Recommended Cable Sizes

NOTE: All wiring must comply with all national and/or local electrical code.

NOTE: The recommended cable sizes are based in an environment with an ambient temperature of 40°C (104°F)

NOTE: Neutral output cables: rate for 173% of output phase current if feeding all Switch Mode Power Supply loads without power factor correction.

NOTE: PE cables: sized in accordance with NEC Article 250-122 and Table 250-122.

NOTE: Maximum cable sizes: 250 kcmil.

Input cable	2/0 AWG 90 °C (194°F) rated copper wire.
Output cable	1/0 AWG 90 °C (194°F) rated copper wire

Recommended Cable Lugs and Crimping Tool

Recommended cable lugs and crimping tools. Manufacturer: Framatome Connectors International (FCI).

Cable Size (AWG)	**Terminal bolt diameter: 8 mm**		
	Cable Lug Type	**Crimping Tool**	**Die**
8	YA8CL2TC38	MD7-34R	W8CVT
6	YA6CL2TC38	MD7-34R	W5CVT
4	YA4CL2TC38	MD7-34R	W4CVT
3	YA3CL2TC38	Y35	U3CRT
2	YA2CL2TC38	MD7-34R	W2CVT
1	YA1CL2TC38	MD7-34R	W1CVT

4. The following ranges can be selected: 40-60 Hz, 47-53 Hz, 49.9-50.1 Hz, 50-70 Hz, 57-63 Hz, and 59.9–60.1 Hz
5. Float voltage is temperature compensated. It is decreased 320 mV per ºC for temperatures higher than 20 ºC
6. May be higher at less than full load
7. It may drop to lower values at low AC Mains.

Cable Size (AWG)	Terminal bolt diameter: 8 mm		
	Cable Lug Type	Crimping Tool	Die
1/0	YA25CL2TC38	MD7-34R	W25VT
2/0	YA26CL2TC38	MD7-34R	W26VT
3/0	YA27CL2TC38	MD7-34R	W27VT
4/0	YA28CL2TC38	MD7-34R	W28VT

Overcurrent Protective Devices in Single Systems

	Symmetra PX 40 kW
Utility/mains input	175 Amp 3-Pole AC circuit breaker with 30 kAIC[8]
Output	150 Amp 3-pole AC circuit breaker with 30 kAIC

Physical

Weights and Dimensions

UPS	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Symmetra PX 10 kW scalable to 40 kW N+1, 208V	406.18 (895)	2070 (81.5)	600 (23.62)	902 (35.50)
Symmetra PX 20 kW scalable to 40 kW N+1, 208V	529.55 (1165)	2070 (81.5)	600 (23.62)	902 (35.50)
Symmetra PX 30 kW scalable to 40 kW N+1, 208V	652.27 (1435)	2070 (81.5)	600 (23.62)	902 (35.50)
Symmetra PX 40 kW scalable to 40 kW N+1, 208V	775 (1705)	2070 (81.5)	600 (23.62)	902 (35.50)

Shipping Weights and dimensions

UPS	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Symmetra PX 10 kW Scalable to 40 kW N+1, 208V	453.18 (997)	2311 (91)	749 (29.5)	1054 (41.5)
Symmetra PX 20 kW Scalable to 40 kW N+1, 208V	586.82 (1291)	2311 (91)	749 (29.5)	1054 (41.5)
Symmetra PX 30 kW Scalable to 40 kW N+1, 208V	720.45 (1585)	2311 (91)	749 (29.5)	1054 (41.5)
Symmetra PX 40 kW Scalable to 40 kW N+1, 208V	854.1 (1879)	2311 (91)	749 (29.5)	1054 (41.5)

8. If your installation does not include an isolation transformer and a maintenance bypass enclosure (option), use a 175 Amp class “J” current limiting fuse on each input phase.

Environmental

Operating temperature	0 - 40 °C (32 - 104 °F)
Storage temperature	-15 - 40 °C (5 - 104 °F)
Operating relative humidity	0 - 95% non-condensing
Storage relative humidity	0 - 95% non-condensing
Operating elevation	0-3000 meters (0-10000 feet)
Storage elevation	0-15000 meters (0-50000 feet)
Audible noise – 1 meter from surface of unit	64 dBA
Protection Class	NEMA 1
Color	Black

Heat Dissipation

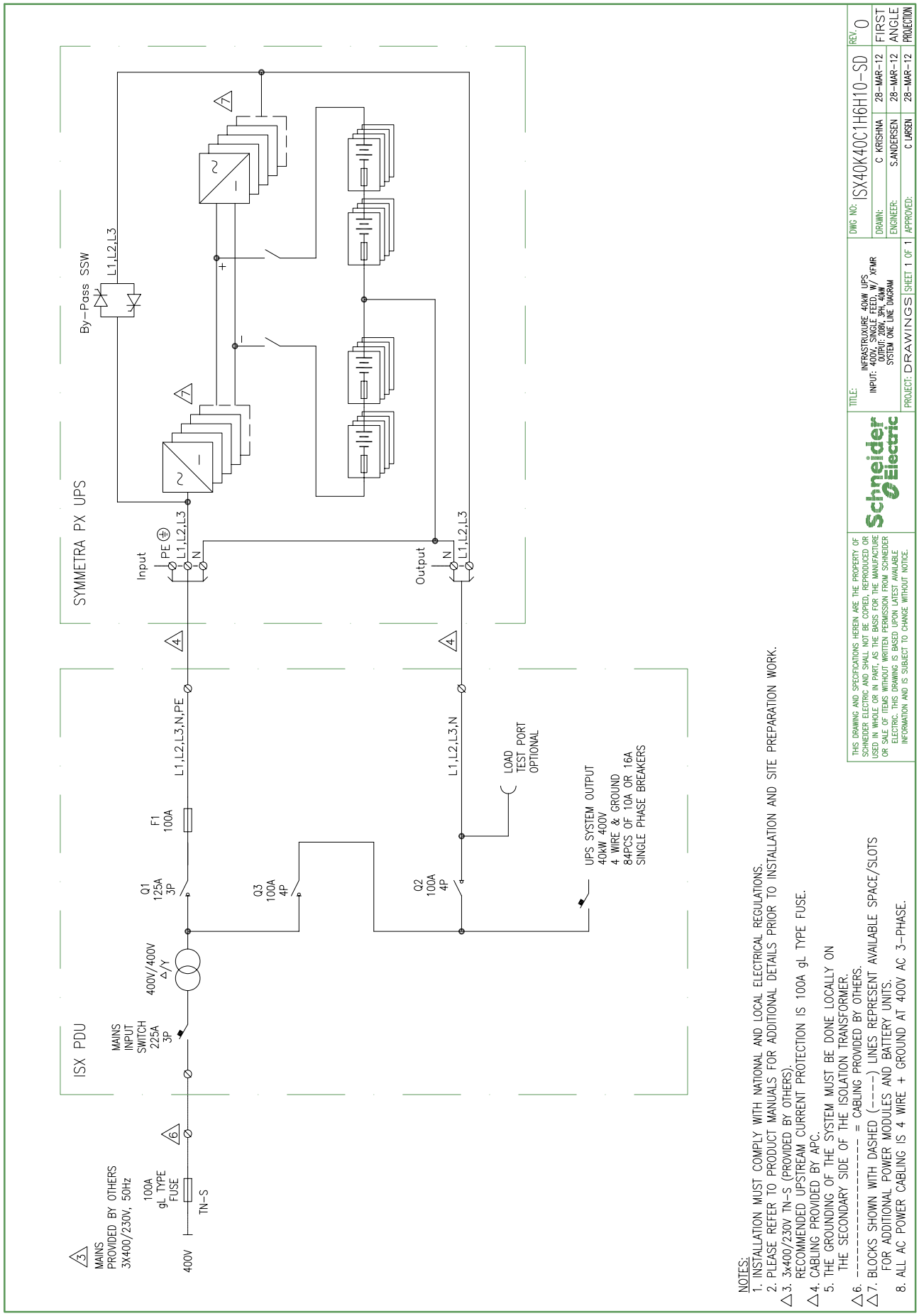
	Symmetra PX 10 kW Scalable to 40 kW	**Symmetra PX 20 kW Scalable to 40 kW**	**Symmetra PX 30 kW Scalable to 40 kW**	**Symmetra PX 40 kW Scalable to 40 kW**
Heat dissipation (BTU/hr)	2160	4147	6134	8121

Drawings

NOTE: A comprehensive set of drawings is available on the engineering website at engineer.apc.com.

NOTE: These drawings are for reference ONLY — subject to change without notice.

Symmetra PX 40 kW UPS with ISX PDU



Options

Hardware Options

Battery Systems

- Modular Battery Module (SYBT4)
- Modular Battery Cabinet (SYCFXR8)
- Modular Battery Cabinet with 8 Battery Modules & Startup (SYCFXR8–8)
- Modular Battery Cabinet with Startup (SYCFXR8S)

Symmetra Accessories

- Emergency Power Off (EPO) (EPW9)

UPS Network Management Cards

- UPS Network Management Card (AP9630CH)
- UPS Network Management Card 2 with Environmental Monitoring (AP9631)

Symmetra Power Module

- 10 kW Power Module, 208 V (SYPM10KF2)

Configurable Power Distribution

- InfraStruxure PDU 208 V:208 V with maintenance bypass panel (PD40F6FK1-M)
- InfraStruxure PDU 40 kW 208 V:208 V Transformerless with maintenance bypass panel (PDRPPNX10-M)
- InfraStruxure PDU 40 kW 480 V:208 V with maintenance bypass panel (PD40G6FK1-M)
- InfraStruxure PDU 40 kW 600 V:208 V with maintenance bypass panel (PD40L6FK1-M)

Maintenance Bypass Enclosure

- Maintenance Bypass Enclosure (SBP40KFC1M1)

Configuration Options

- Internal N+0 or N+1 redundancy
- Top or bottom feed
- Extended battery runtime
- Line-up/remote modular battery cabinets
- StruxureWare Data Center Expert compatible
- Secondary Network Management Card
- Smartslot device management cards
- 40 kW InfraStruxure PDU with maintenance bypass panel and optional isolation transformer
- Battery Breaker Box
- Service Bypass Panel

Schneider Electric Limited Factory Warranty

Three Phase Power Products or Cooling Solutions One-Year Factory Warranty

The limited warranty provided by Schneider Electric in this Statement of Limited Factory Warranty applies only to products you purchase for your commercial or industrial use in the ordinary course of your business.

Terms of Warranty

Schneider Electric warrants that the product shall be free from defects in materials and workmanship for a period of one year from the date of product start-up when start-up is performed by Schneider Electric-authorized service personnel and occurs within six months of the Schneider Electric shipment date. This warranty covers repairing or replacing any defective parts including on-site labor and travel. In the event that the product fails to meet the foregoing warranty criteria, the warranty covers repairing or replacing defective parts at the sole discretion of Schneider Electric for a period of one year from the shipment date. For Schneider Electric cooling solutions, this warranty does not cover circuit breaker resetting, loss of refrigerant, consumables, or preventive maintenance items. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable Warranty

This warranty is extended to the first person, firm, association or corporation (herein referred to by “You” or “Your”) for whom the Schneider Electric product specified herein has been purchased. This warranty is not transferable or assignable without the prior written permission of Schneider Electric.

Assignment of Warranties

Schneider Electric will assign you any warranties which are made by manufacturers and suppliers of components of the Schneider Electric product and which are assignable. Any such warranties are assigned “AS IS” and Schneider Electric makes no representation as to the effectiveness or extent of such warranties, assumes no responsibility for any matters which may be warranted by such manufacturers or suppliers and extends no coverage under this Warranty to such components.

Drawings, Descriptions

Schneider Electric warrants for the warranty period and on the terms of the warranty set forth herein that the Schneider Electric product will substantially conform to the descriptions contained in the Schneider Electric Official Published Specifications or any of the drawings certified and agreed to by contract with Schneider Electric if applicable thereto (“Specifications”). It is understood that the Specifications are not warranties of performance and not warranties of fitness for a particular purpose.

Exclusions

Schneider Electric shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user or any third person misuse, negligence, improper installation or testing. Further, Schneider Electric shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, start-up by non-Schneider Electric designated personnel, a change in location or operating use, exposure to the elements, Acts of God, fire, theft, or installation contrary to Schneider Electric recommendations or specifications or in any event if the Schneider Electric serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

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