



PowerStruXure™ Type A Site Preparation Guide 208V, 2–6 kVA Systems

Selecting and purchasing system components

When ordering your system:

- Determine your load power and runtime requirements.
- Purchase your system components.
 - Include Symmetra® redundant battery and power modules required for your system.
 - Select options and accessories, such as management cards and rack-mount PDUs.
- Evaluate and select a service plan.

For assistance with these tasks, go to the APC Web page www.apc.com/products/powerstruxure/index.cfm/.

Environmental requirements

Select a site that is temperature-controlled, clean, dry, and free of conductive contaminants, and that meets the following specifications:

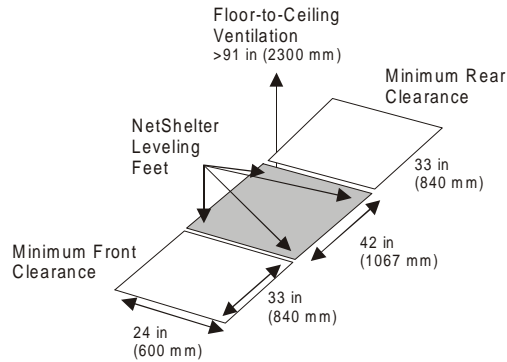
Temperature	0–40° C (32°–104° F)
Relative Humidity	0–95% non-condensing
Elevation above mean sea level	0–3000 m (0–10 000 ft)

Allow for the following typical thermal dissipation by the UPS when it is fully loaded and has N+1 redundancy (one more power module than necessary to support the load).

UPS 6 kVA N+1(Full Load) with batteries charged	1290 BTU
UPS 6 kVA N+1(Full Load) with batteries charging	3300 BTU

Required clearances for access and ventilation

All enclosures require the same clearances, which are the clearances required for NetShelter® VX enclosures.



Weight and U-space availability

Plan which equipment to install in the enclosures. When its leveling feet are in place, each enclosure can support 2000 lb (907.2 kg) of equipment including any factory-installed components and not including the weight of the enclosure itself. You can install a maximum of two rack-mount PDUs in each enclosure. (For detailed information on rack-mount PDUs, including the number of receptacles on each model, go to the Web page www.apc.com/products/rack/rps.cfm.)



Ensure that the floor can support a fully loaded system. Including the weight of the enclosure and its equipment load, each base enclosure can weigh up to 2359 lb (1070.0 kg), and each NetShelter VX enclosure can weigh up to 2282 lb (1035.1 kg.)

Enclosure SKU	Description	Weight (unpacked)	U-Space Available (not used by factory-installed or required components)
PSXBR6KT	Base Enclosure	539 lb 242.6 kg	32U (with transformer and UPS frame factory-installed)
AR2101BLK	NetShelter VX Enclosure	282 lb 127.9 kg	42U

Component SKU	Description	Weight (unpacked)
SYPM2KU	Symmetra RM Power Module	17 lb 7.7 kg
SYBT2	Symmetra RM Battery Module	48 lb 21.8 kg

**Electrical requirements:
input**

Use these guidelines, and check local and national electrical codes.



Hardwired installation requires a licensed electrician.

Input Connection

SKU	Connection Method	Maximum Load	Input Voltage	Connection Details
PSXBR6KT (Base Enclosure)	Cord-connected	5 kVA	208 VAC	30 A, 2-pole external circuit breaker/L6-30R receptacle. 10 ft. (3.0 m) cord with L6-30P plug is provided.
	Hardwired (3-wire: L1, L2/N, and \ominus)	6 kVA	208 VAC	40 A, 2-pole external circuit breaker. See local and national codes for wire required for maximum current (full load).

**Electrical requirements:
output****Output Connection**

SKU	Connection Method	Available Receptacles
PSXBR6KT (Base Enclosure)	Cord-connected	One L6-30R receptacle allocated for the step-down transformer. Two L6-20R receptacles allocated to connect rack-mount PDUs for the appropriate output voltage. Four L5-20R receptacles on the step-down transformer allocated to connect appropriate 120 V rack-mount PDUs.

**Electrical requirements:
REPO**

Remote Emergency Power Off (REPO). If required by local or national codes, you must connect the REPO (to disable output power in an emergency) either as internally powered for use with non-powered switch circuits, or externally powered for use with +24 VDC-powered switch circuits. The REPO circuit must be a Class 2 (UL and CSA standard) and SELV (IEC standard) circuit, isolated from all primary circuitry. For instructions on wiring, see the installation section in the *User's Manual* for your Symmetra RM UPS.

The connection of the UPS to the REPO requires one of the following cable types:

Cable	Description
CL2	Class 2 cable for general use.
CL2P	Plenum cable for use in ducts, plenums, and other spaces used for environmental air-flow.
CL2R	Riser cable for use in a vertical run in a shaft from floor to floor.
CLEX	Limited use cable for use in dwellings and in raceways.

In Canada use only CSA-certified, ELC (extra low voltage control) cable.



Installation requires a licensed electrician.

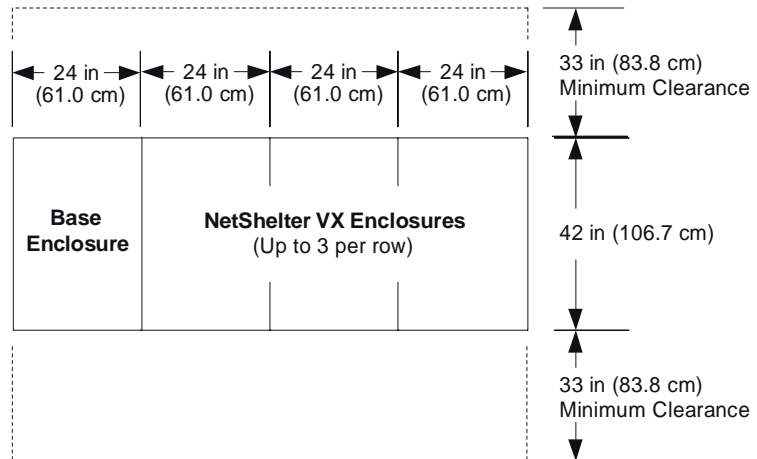
Customer support

For help with system-wide problems, contact APC in the USA at 1-877-537-0607. For help with problems regarding individual components of your system, see the Customer Support contact information on the last page of this guide.

Sample configuration

Your system can have a maximum of one base enclosure and three NetShelter VX enclosures. Arrange the enclosures in your system in a single row.

Following is a typical configuration. The minimum front and rear clearance is the distance that your row of enclosures must be from other equipment or from a wall in order to install and service equipment.





APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to find answers to frequently asked questions (FAQs), to access documents in the APC Knowledge Base, and to submit customer support requests.
 - **www.apc.com** (Corporate Headquarters)
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
 - **www.apc.com/support/**
Global support with FAQs, knowledge base, and e-support.
- Contact an APC Customer Support center by telephone or e-mail.
 - Regional centers:

APC headquarters U.S., Canada	(1)(800)800-4272 (toll free)
Latin America	(1)(401)789-5735 (USA)
Europe, Middle East, Africa	(353)(91)702020 (Ireland)
Japan	(03)5434-2021 Guidance 3

- Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

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