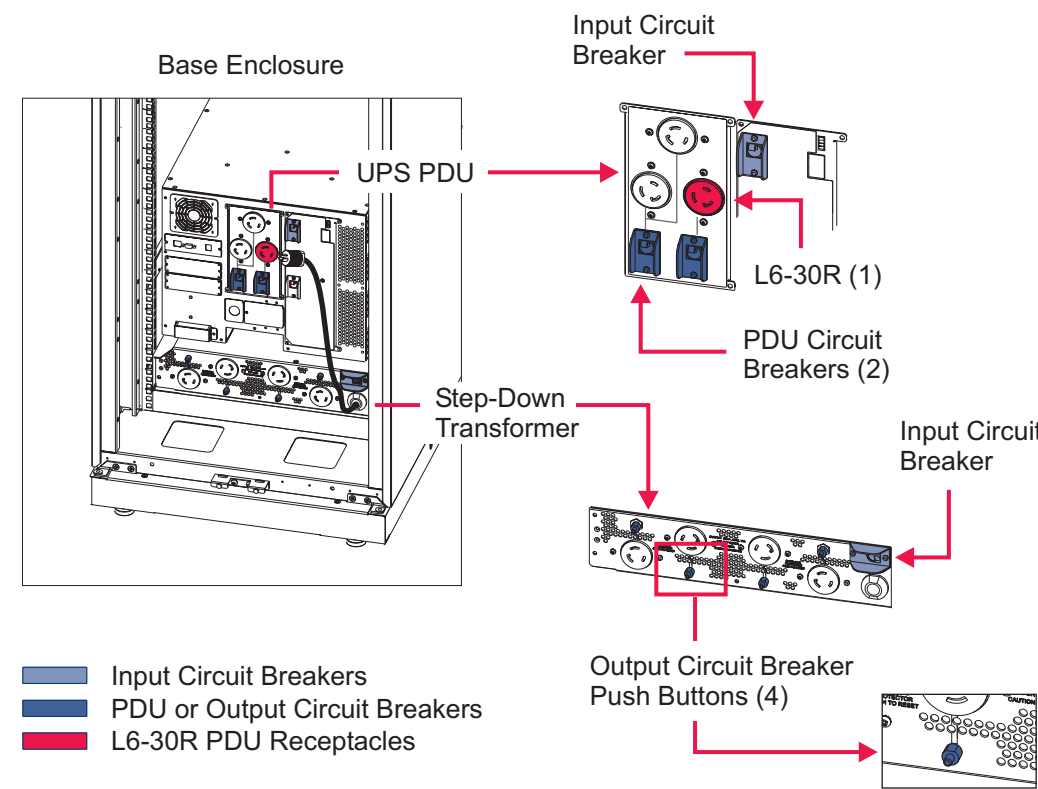


## 6 Connect the Step-Down Transformer and Set Circuit Breakers

Before beginning this step, see the *Symmetra RM [2–6 kVA N + 1 Redundant] Power Array User's Manual* and the *Step-Down Transformer [Models: AP9621, SYTF2, SYTF2J, SYTF3 and SYTF3J] User's Manual* for safety and installation instructions.

- In the Base Enclosure, plug the Step-Down Transformer power cord into the UPS L6-30R PDU receptacle.
- In the Base Enclosure, set the UPS input circuit breaker and all of the UPS PDU circuit breakers to the ON position.
- In the Base Enclosure, set the Step-Down Transformer input circuit breaker to the ON position and the output circuit breakers to the ON position by fully pressing in the Push buttons.



## 7 Install the Rack-Mount Power Distribution Units (PDUs)

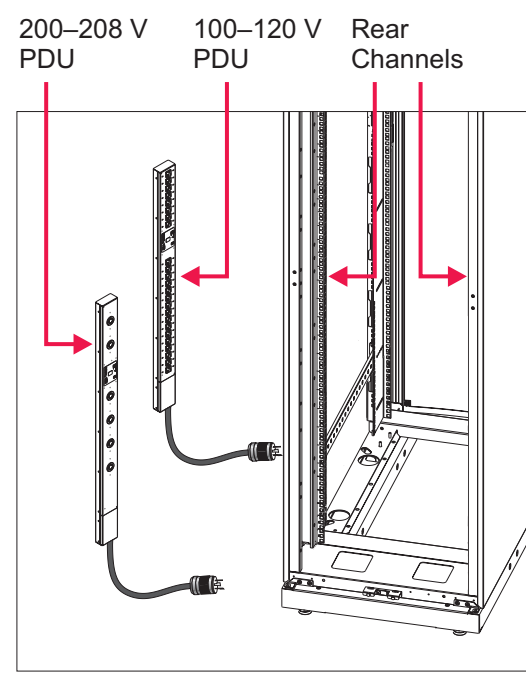
Before beginning this step, see the *Power Distribution Unit (PDU) User's Manual* for safety and installation instructions.

Install the rack-mount PDU's vertically in the left or right rear channel of each applicable enclosure.

- The Base Enclosure contains receptacles to support up to two 200–208 V rack-mount PDUs and four 100–120 V rack-mount PDUs. They can be installed in any configuration which meets the need of your system.
- If more than two 200–208 V rack-mount PDUs are required, daisy-chain up to two 200–208 V rack-mount PDUs.

**Note** A complete daisy-chained 200–208 V circuit has a 20 A current availability.

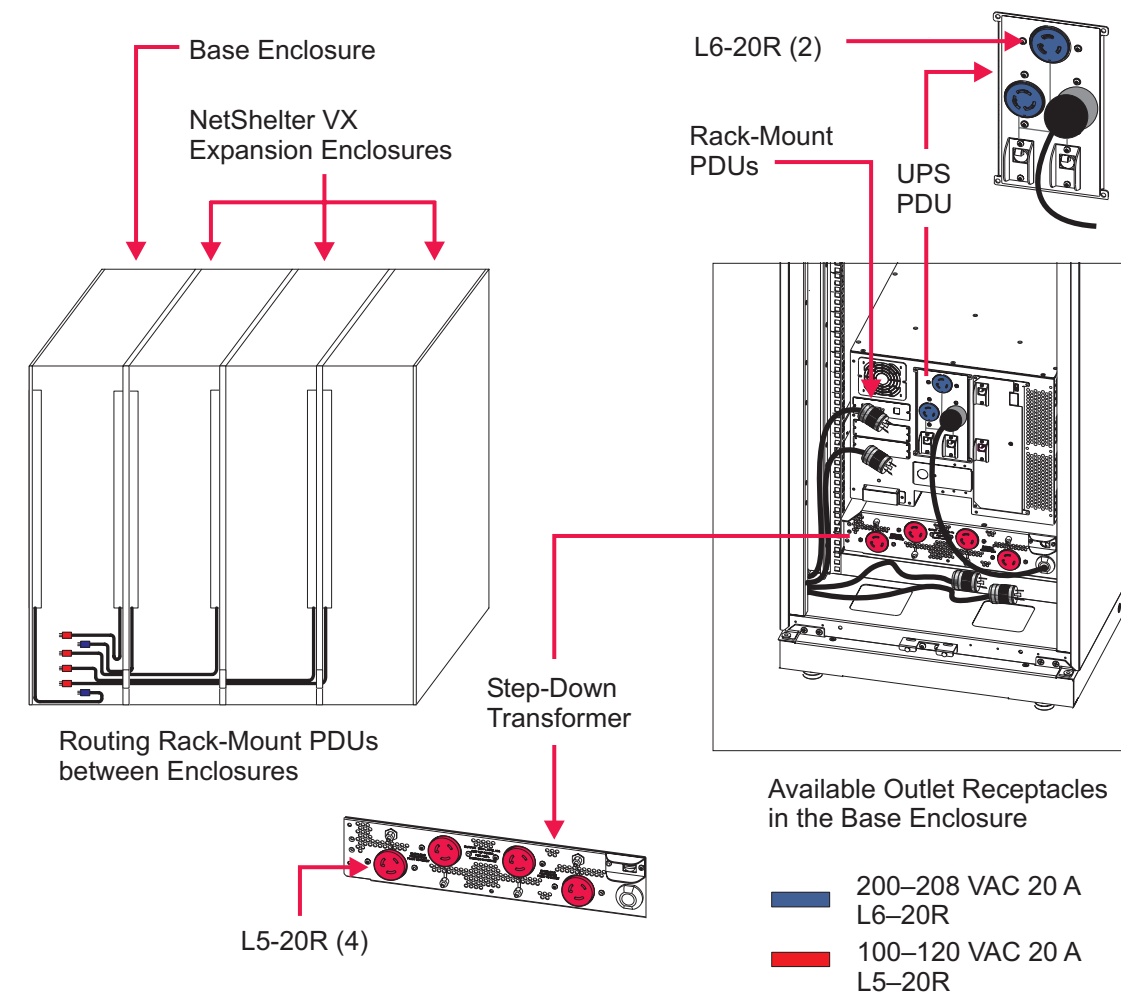
- Each enclosure supports up to two rack-mount PDUs of either type, one on each side.
- MasterSwitch VM PDUs may be substituted if remotely controllable outlets are required.



NetShelter VX Expansion Enclosure

## 8 Connect the Rack-Mount Power Distribution Units (PDUs)

- Route the power cord for each rack-mount PDU using the holes provided on either side at the bottom of an enclosure. Push the excess cord into the channels next to the rack-mount PDUs for a neater appearance.
- Plug each power cord into the appropriate outlet receptacle (L5–20R or L6–20R) on the UPS or Step-Down Transformer.



## 9 Install Optional Equipment in the Enclosures

Your system is now ready for you to install optional equipment. See the documentation you received with optional equipment and accessories for their installation and setup.

- Install any optional equipment and accessories before installing the Extended Run Cabinet battery modules and the UPS battery and power modules. Visit APC's website at [www.apc.com](http://www.apc.com) for available PowerStruXure Type A accessories.
- If you plan to manage your system using the pre-installed Web/SNMP Management Card, connect the network cable now.

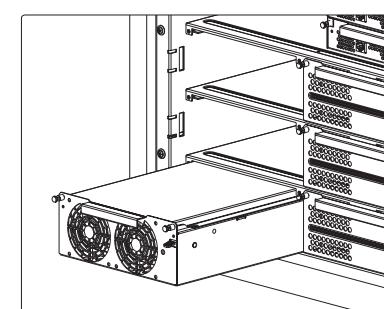
## 10 Install Power and Battery Modules

Before beginning this step, see the "Completing the Installation" section in the *Symmetra RM [2–6 kVA N + 1 Redundant] Power Array User's Manual* and the *Symmetra RM Extended Run Setup Guide* for safety and installation instructions.

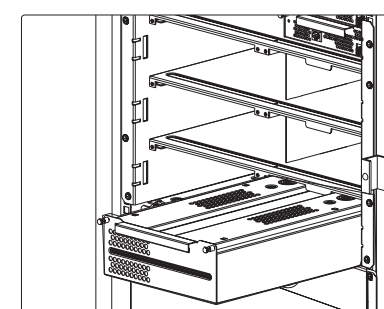
**Caution** Batteries can be permanently damaged if installed in a system that is not being used. Store battery module(s) at an ambient temperature below 25 °C (77 °F).

**Heavy** Two people are required to lift, move or install a battery module.

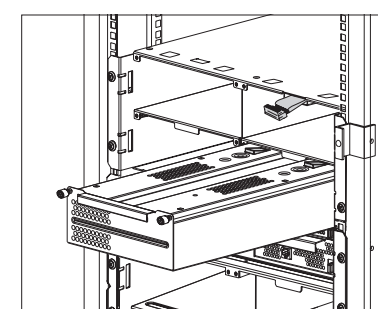
- Unpack and install the UPS power and battery modules.
- If your system includes Extended Run Cabinets, unpack and install the battery modules.



UPS Power Modules



UPS Battery Modules

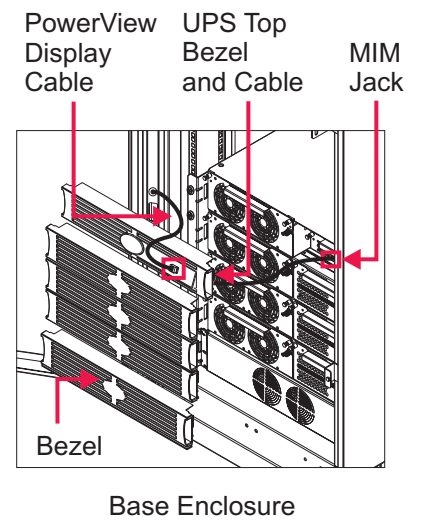


Extended Run Cabinet Battery Modules

## 11 Connect the PowerView Display and Install the Bezels

Before beginning this step, see the "Completing the Installation" section in the *Symmetra RM [2–6 kVA N + 1 Redundant] Power Array User's Manual* and the "Installing in a Four-Post Rack" section in the *Step-Down Transformer User's Manual* for additional information.

- Install the bezel (with attached cable) at the top of the UPS. Plug its cable into the main intelligence module (MIM), then snap the bezel into place.
- To connect the PowerView Display (on the door), plug its cable into the jack of the top UPS bezel.
- Install all other bezels for the UPS and Step-Down Transformer.



## 12 Finish the Installation

Before beginning each step in this section, see the referenced documentation for detailed instructions.

- Ensure that the UPS is installed correctly by performing the "Final Installation Checklist" procedure in the Installation section of the *Symmetra RM [2–6 kVA N + 1 Redundant] Power Array User's Manual*.
- Make sure that all circuit breakers on the Step-Down Transformer are in the ON position. See Step 6.
- Start up the UPS by turning it ON and powering up the load equipment. See the "Getting Started" procedures in the Operation section of the UPS user's manual.



The UPS output voltage is factory-set to 200–208 V to provide 100–120 V output at the Step-Down Transformer. If the UPS voltage setting is changed, the Step-Down Transformer output voltage could be higher than your equipment's recommended voltage.

- If applicable, change the PowerView Display language setting as outlined in the "Language Setting" procedure in the Operation section of the UPS user's manual.
- If necessary, configure the rack-mount PDUs alarm threshold as outlined in the *Power Distribution Unit (PDU) User's Manual*.
- If your system includes Extended Run Cabinets, perform all procedures as outlined in the *Symmetra Extended Run Cabinet Startup Guide*.
- Configure any management accessory cards and software.

## 13 Troubleshooting Procedures

For troubleshooting procedures, see the accompanying APC product documentation. If a system-wide problem persists, call APC technical support at 1-877-537-0607. For individual component support, visit APC's website at [www.apc.com/support](http://www.apc.com/support).

| Problem  | Possible Cause  | Solution  |
|--|---|---|
| NO power in ALL enclosures.                                | The UPS is not turned ON.   | Perform the "Getting Started" procedures in the Operation section of the UPS user's manual.   |
|  | VAC input is not present.   | Ensure that Step 4 is properly completed.<br>Ensure that the Mains circuit breaker is ON.     |
| NO power in multiple enclosures.                           | A Step-Down Transformer input circuit breaker or UPS PDU circuit breaker is OFF.  | Ensure that Step 6 is properly completed.   |
| NO power in an individual rack-mount PDU or one enclosure. | The rack-mount PDU is not plugged into the outlet receptacle.                     | Ensure that Step 8 is properly completed.   |
|  | A Step-Down Transformer output circuit breaker or UPS PDU circuit breaker is OFF. | Ensure that Step 6 is properly completed.   |
| Problem with an Extended Run Cabinet.                      | The Extended Run Cabinet is not properly connected.                               | See the "Troubleshooting" section in the <i>Symmetra Extended Run Cabinet Startup Guide</i> . |
| A circuit breaker trips repeatedly.                        | The circuit breaker is overloaded.  | Redistribute the load, then ensure that the circuit breaker is turned ON.                     |
| PowerView Display not ON.                                  | The PowerView Display unit is not connected to the UPS.                           | Ensure that Steps 11A and 11B are properly completed.   |
| Fault LEDs or error messages.                              | There is a potential system fault or tripped alarm.                               | See "Troubleshooting" in the Operation section of the UPS user's manual.                      |
| The Step-Down Transformer output voltage is high.          | The UPS input voltage switch setting is incorrect.                                | Ensure that Step 12C is properly completed.   |
|  | The PowerView Display output voltage setting is incorrect.                        | See the "Setup Menu" in the UPS user's manual for the correct setting.                        |