

# Symmetra® LX

## Physical Installation Guide

### Rack-mount Extended Run Cabinet

For use with Symmetra LX UPS Models:

200 V, 4–8 kVA	200 V, 4–16 kVA
208/240 V, 4–8 kVA	208/240 V, 4–16 kVA
220/230/240 V, 4–8 kVA	220/230/240 V, 4–16 kVA

## Important Safety and Installation Instructions

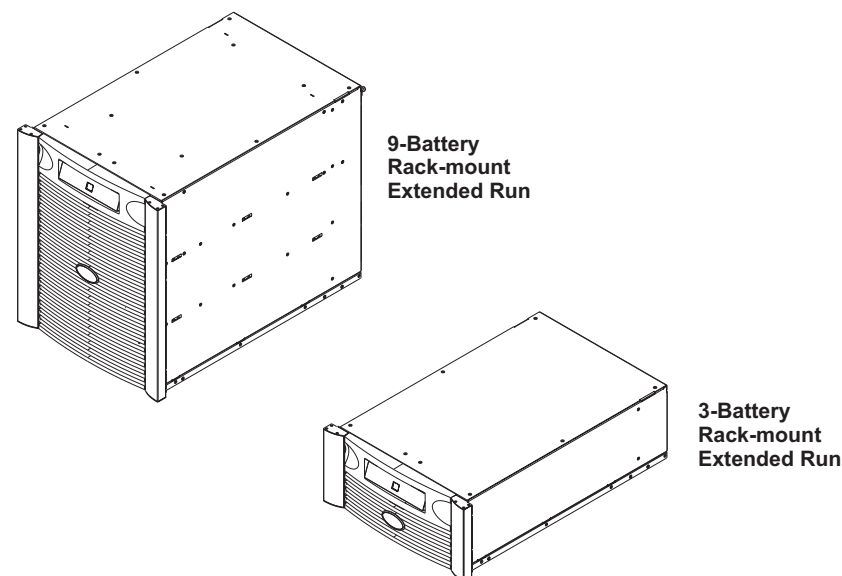
This guide is applicable for the three- and nine-battery Symmetra LX Rack-mount Extended Run Cabinets, which provide extended run time for the Symmetra LX rack-mount UPS.

See and retain the product documentation shipped with your system for other important installation, operation, and maintenance instructions.

Illustrations are representative. Your Symmetra LX configuration, including components and optional APC equipment, may be different from the models shown in this guide.

Entire contents copyright 2005 by American Power Conversion Corporation. All rights reserved. Reproduction in whole or in part without permission is prohibited.

APC, the APC logo, PowerChute, InfraStruXure, Smart-UPS and Symmetra are registered trademarks of American Power Conversion Corporation. All other trademarks are the property of their respective owners.



APC®  
www.apc.com



990-1543-001, 04/2005

## Physical Installation



Read, understand and follow ALL safety instructions contained in the *Symmetra LX Safety Instructions and General Information Guide*. Failure to follow safety instructions and warnings could result in equipment damage, serious injury, or death.

Two people are required to lift or transport the Extended Run Cabinet due to its weight.

Extended run cabinets and battery modules are heavy. Forklifts may assist in transporting pallets. Mechanical assistance may be necessary for installation in upper rack locations.

## 1 Unpack Equipment

### Nine-battery unit:

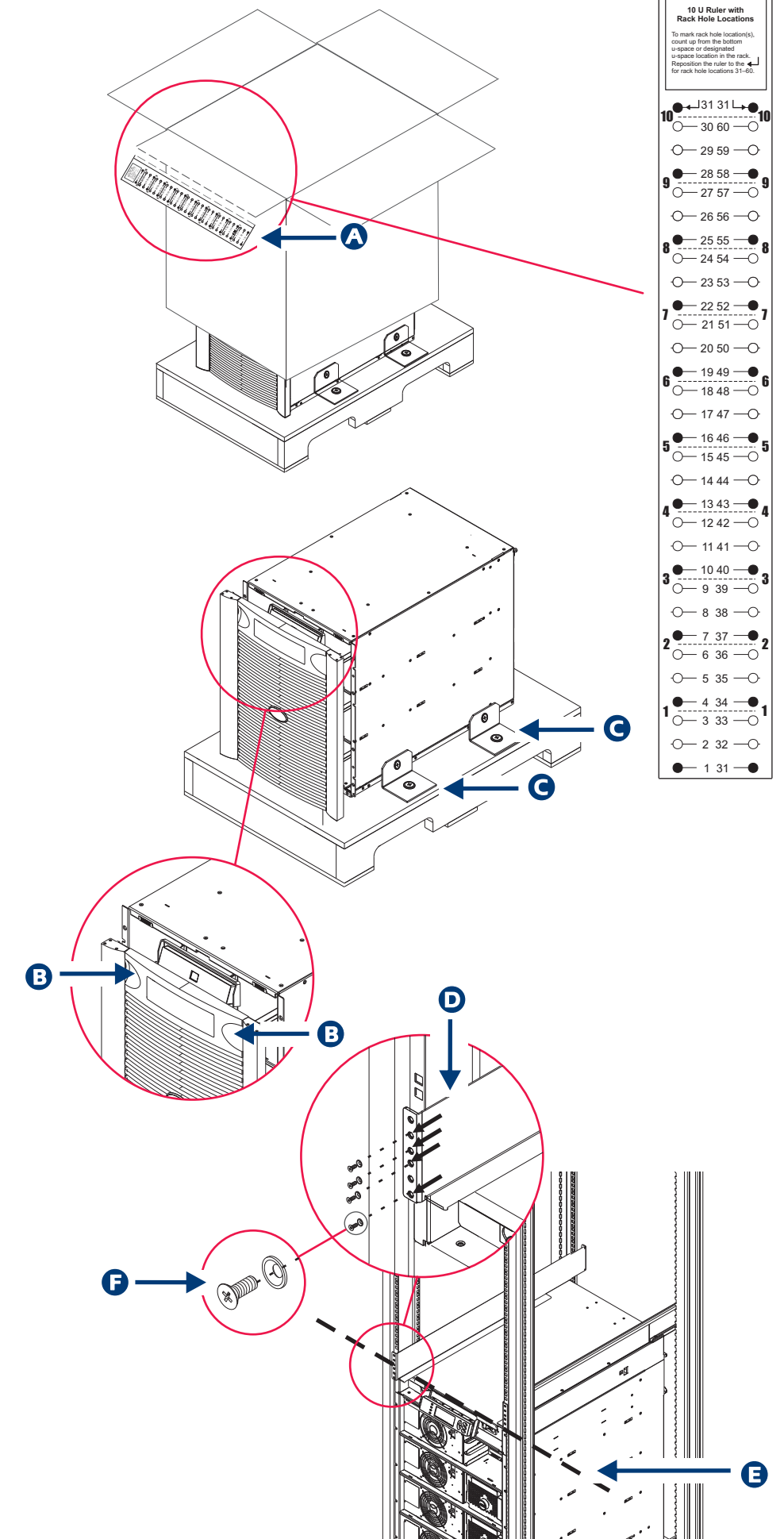
- 1.1 Move the pallet to the installation site.
- 1.2 Remove the shipping straps to open the cardboard box containing the unit.
- 1.3 Remove and retain the cardboard ruler **A**, literature kit, and rail kit.
- 1.4 Remove the door.
  - ❑ Grab onto the door at the tabs **B**, gently pull forward to release the top of the door from the frame, then lift and remove.
- 1.5 Remove the shipping brackets **C** securing the unit to the pallet.
  - ❑ Leave the unit on the pallet until rack installation (see Step 4).
- 1.6 Unpack battery boxes at the installation site.

### Three-battery unit:

- 1.7 Move all boxes to the installation site.
- 1.8 Open the cardboard box containing the Extended Run Cabinet.
  - ❑ Remove and retain the cardboard ruler **A**, literature kit, and rail kit.
  - ❑ Lift the unit out of the box.
- 1.9 Remove the door.
  - ❑ Grab onto the door at the tabs **B**, gently pull forward to release the top of the door from the frame, then lift, and remove.
- 1.10 Unpack battery boxes at the installation site.

## 2 Install Rails

- 2.1 Position the rails **D** at the bottom of the desired location for the extended run cabinet **E**.
- 2.2 Attach the rails to the front of the rack with four countersunk screws and washers **F**. (The second and sixth holes from the bottom are not used.)
- 2.3 Attach the rails to the rear of the rack with four countersunk screws and washers **F**.



3 Install Clip Nuts

- 3.1 Align the bottom hole of the ruler **G** with the bottom hole of the rails **H** and install the clip nuts **I** at the appropriate locations **J** in the rack.
- 3.2 Reposition the ruler for rack hole locations 31-60.

4 Install Unit



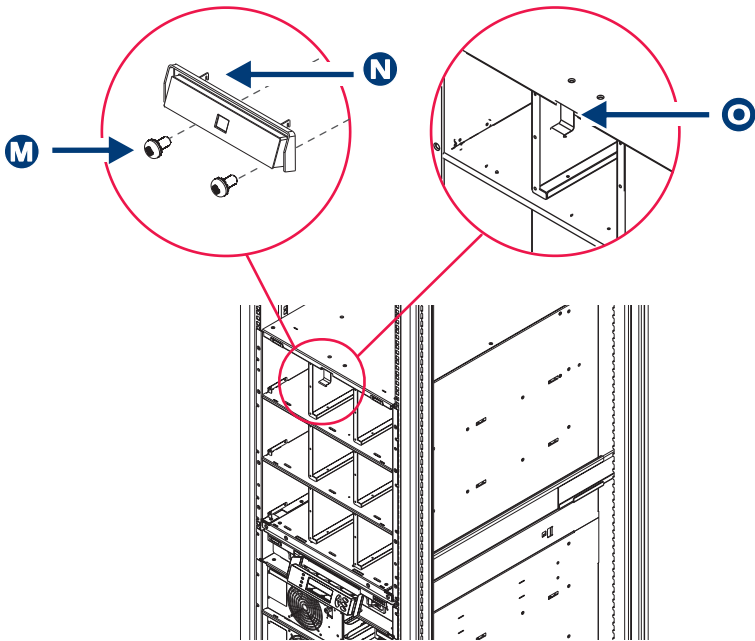
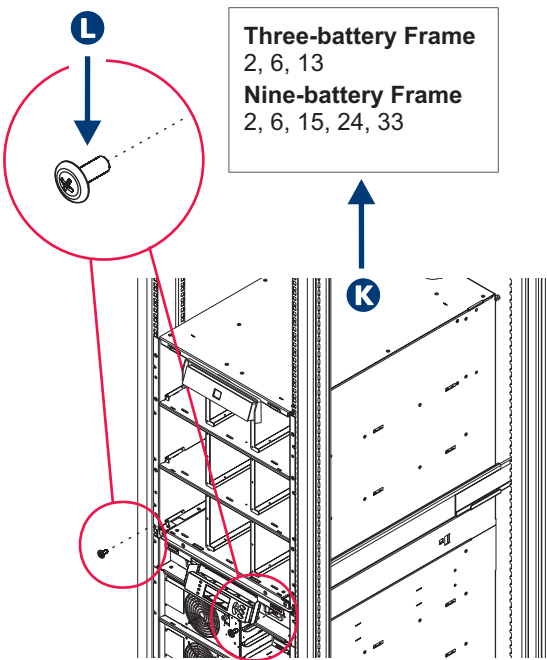
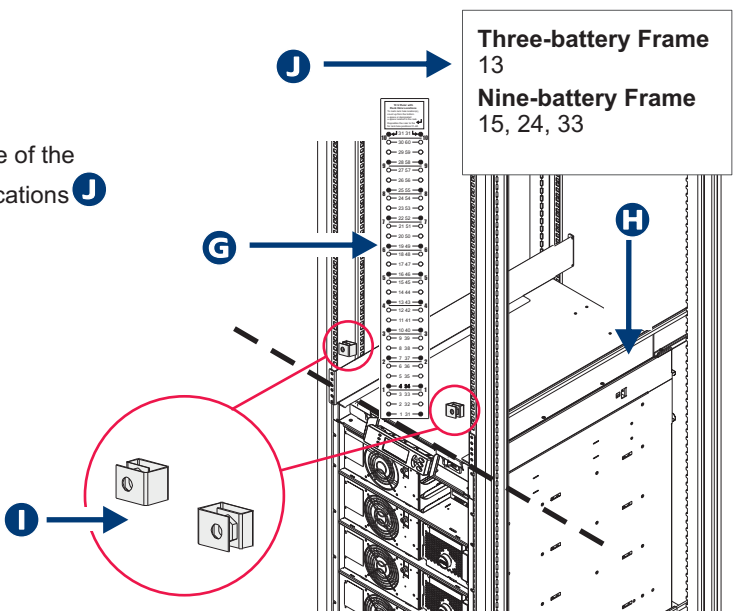
Caution

- Two people are required to move the unit due to its weight.
- Due to the weight of the battery modules, do not install until the unit is securely in the rack.

- 4.1 Install the unit in the rack.
- With two people, one on either side of the unit, grab onto the front and rear corners of the frame.
  - Lift and slide the rear of the unit onto the rails in the rack.
  - Slide the unit onto the rails until it is fully seated in the rack.
- 4.2 Secure the unit in the rack.
- At the appropriate locations **K**, install the ornamental screws **L** from the rail kit.

5 Remove Display

- 5.1 Remove the screws **M** that secure the front display to the top of the unit.
- 5.2 Gently pull upwards to loosen the tabs **N** from the unit.
- 5.3 Disconnect the cable **O** from the front display panel.



6 Install and Connect Battery Modules



Note

- Two people are required to handle each battery module due to the weight.
- To avoid a top heavy load in the Extended Run Cabinet, install battery modules from the bottom upwards.

- 6.1 Slide the battery into the battery bay until the front of the battery is behind the safety catch **P**.
- 6.2 Check that each battery module is in the connected position. Use a coin to turn the battery switch counterclockwise to the ON (connected) position.

7 Install Display

- 7.1 Connect the display cable **Q** to the front display panel.
- 7.2 Snap the front display tabs **R** onto the unit.
- 7.3 Secure the front display by tightening the screws **S** to the unit.

8 Install Door

- 8.1 Insert the tabs on the bottom rear of the door **T** into the slots on the base of the unit.
- 8.2 Push the top of the door towards the unit until the magnetic catches are engaged.

9 To Complete the Installation

- 9.1 Return to the *Symmetra LX Startup Guide* for the Extended Run Cabinet to configure, test, and start up the unit.

