

Overview

This manual provides an overview of the installation and start-up procedures for the Symmetra[®] LX UPS and Extended Run Cabinet.

Illustrations are representative. Your unit and configuration, including components and optional APC equipment, may vary from the those depicted in this document. Manuals may be accessed through the APC Web site, www.apc.com.

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Safety Instructions

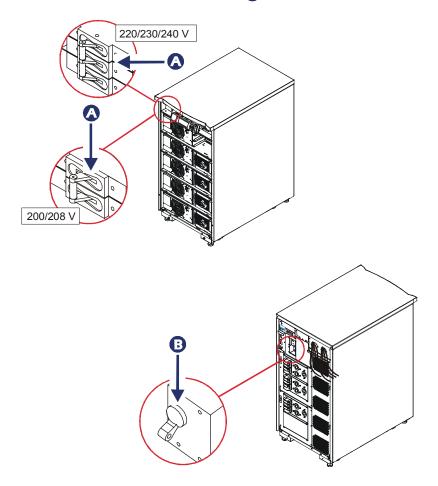


• Read, understand and follow ALL safety instructions contained in the Symmetra LX Safety Instructions and General Information Guide.

• Failure to follow safety instructions and warnings could result in equipment damage, serious injury, or death.

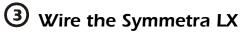
① Turn Off All Power

- 1. Check that the AC utility power to the UPS is OFF.
- 2. Check that the input circuit breaker (A) on the UPS is OFF.
- 3. Check that the system enable switch (B) is OFF.



② Install the Symmetra LX

- Install the Symmetra LX UPS and accompanying modules. Refer to the Symmetra LX UPS *Physical Installation Guide*.
- Install the appropriate Extended Run Cabinets and accompanying modules. Refer to the *Symmetra LX Extended Run Cabinet Physical Installation Guide*.



- Install the input and output power connections, and the remote emergency power off (REPO). Refer to the Symmetra LX Electrical Installation Guide.
- Install all management and communications cables. Refer to the instruction manual for each product.

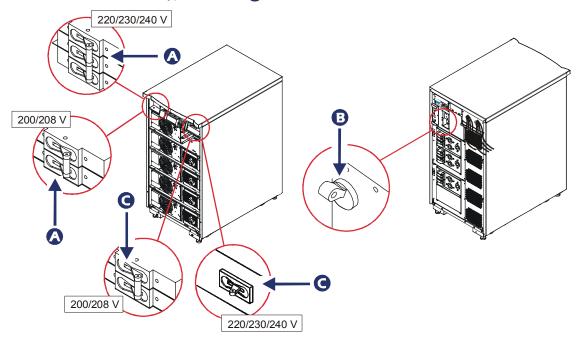
Complete the System Installation Checklist

To ensure proper UPS installation, complete the tasks in this checklist.

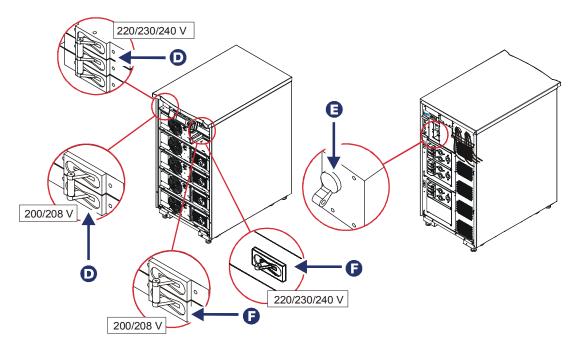


Refer to the Symmetra LX Physical Installation Guide and the Symmetra LX Electrical Installation Guide for more detailed information.

- 1. Disconnect all load equipment.
- 2. Check that all rack mounted components are secured properly in the rack.
- 3. Check that all modules (power, battery, and intelligence) are fully installed.
- 4. Check that the PowerView is connected to either Intelligence Module (IM).
- 5. Turn ON the AC utility power to the UPS.
- 6. Turn ON the input circuit breaker (A) and system enable switch (B).
- 7. The system will make clicking sounds as it powers up, and may display messages on the PowerView. Disregard the messages at this time. Press the 'Esc' button until the monitoring screen is displayed. Verify that the input voltage, Vin, matches your branch circuit (mains) voltage.
- 8. Turn the maintenance bypass switch **C** ON.



- 9. Disregard any LED indicators or messages on the PowerView. Press the 'Esc' button until the monitoring screen is displayed.
- 10.Verify that the input voltage, Vin, and the output voltage, Vout, match your branch circuit (mains) voltage.
- 11.Test the REPO switch. The system enable switch should physically move to the standby position, and the system should shut down completely.
- 12.If all prior checks are completed, the installation is successful. Turn OFF the input circuit breaker **D**, system enable switch **G**, and maintenance bypass switch **F**. If the installation is not successful, review the installation procedures and refer to the *Troubleshooting* section of the *Symmetra LX Operations Manual*.



5 System Startup Procedures

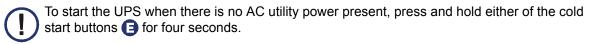
Refer to the *Symmetra LX Operations Guide* for more detailed information.

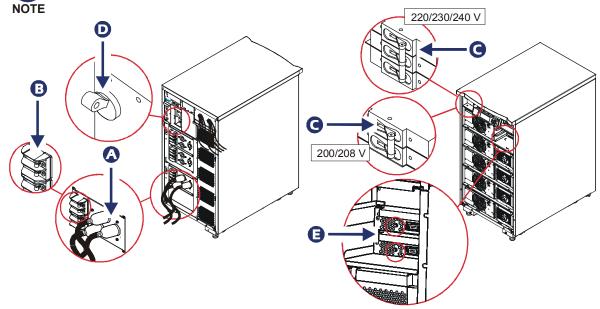
Turn ON the UPS

This procedure powers the Symmetra LX and does not power equipment connected to the UPS.

- 1. Turn ON the AC utility power to the UPS.
- 2. Switch ON the circuit breakers for all connected equipment.
 - a. If connected equipment is hardwired, check that the output circuit breakers in the distribution panel are turned ON.
 - b. If connected equipment is plugged into the UPS (A), check that each UPS PDU output circuit breaker (B) is switched ON.

- 3. Switch ON the UPS input circuit breaker **G**.
- 4. Turn ON the UPS system enable switch **D**.





5. After initialization, the monitoring screen appears, providing a view of operating parameters.

Chg100% Load 000% 220 Vin 000 Vout 60Hz Runtime: 00hr 30min

Set the Correct Output Voltage

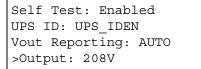
1. Press the 'Esc' button until the Main Menu appears. Use the up and down arrow keys to choose 'Setup' and ENTER to select it.

Conrol Status	Logging Display
>Setup	Diags
Accessories	Help

2. Use the arrow keys and ENTER to select 'Other'.

Settings:	Alarms
Settings: Shutdown	Bypass
Defaults	Сору
Output Freq	>Other

3. If the output voltage is not correct for your application use the arrow keys and ENTER to select 'Output'. The cursor will move to the voltage field, as the up and down arrows scroll through available choices. Select the desired voltage setting and press ENTER.



Turn On the Load Equipment

The Symmetra LX must be turned on before executing this procedure.

1. Press 'Esc' until the Main Menu appears. Use the up and down arrow keys to choose 'Control' and ENTER to select it.

Logging
Display
Diags
8 Help

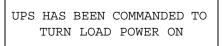
2. Use the arrow keys and ENTER to select 'Turn UPS Output On'. NOTE: You must scroll down to a second page of choices.

```
Graceful Turn Off
Start Runtime Cal
>Turn UPS Output On
```

3. Confirm choice by selecting 'YES'.

```
Confirm:
Turn UPS On
CANCEL
>YES, Turn UPS On
```

4. There will be clicking sounds and this message will appear. NOTE: You may be given one or more override warnings. Answer these by selecting 'Start Now'.



5. In approximately 90 seconds, the green Load On indicator will illuminate and this message will appear.

UPS LOAD IS ON Press any key...