APC
by Schneider Electric

Installation Guide Smart-UPS™ X Tower/Rack-Mount 2U 2000/2200/3000 VA

Important Safety Messages

SAVE THESE INSTUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the Smart-UPS and batteries.

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this document 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 either to a "Danger" or "Warning" safety label 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 that follow this symbol to avoid possible injury or death.

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

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

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

NOTICE
NOTICE is used to address practices not related to physical injury.

Product Handling Guidelines

<18 kg
<40 lb   18-32 kg
40-70 lb   32-55 kg
70-120 lb   >55 kg
>120 lb
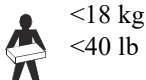
Safety and General Information

Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

Read the Safety Guide supplied with this unit before installing the UPS.

- Adhere to all local and national electrical codes.
- All wiring must be performed by a qualified electrician.
- Changes and modifications to this unit not expressly approved by APC by Schneider Electric could void the warranty.
- This UPS is intended for indoor use only.
- Do not operate this UPS in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.
- Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.
- For a UPS with a factory installed power cord, connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- The battery typically lasts for two to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
- The batteries are heavy. Remove the batteries before installing the UPS and external battery packs (XLBPs), in a rack.
- Always install peripheral equipment above the UPS in rack-mount configurations.
- Additional safety information can be found in the Safety Guide supplied with this unit.
- Always install external battery packs (XLBPs) at the bottom of the rack. The UPS must be installed above the XLBPs.
- The UPS display interface will recognize as many as 10 external battery packs connected to the UPS. **Note:** However there is no limit to the number of XLBPs that can be used with the UPS.

Battery

⚠ CAUTION
RISK OF HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE • Replace the battery at least every 5 years. • Replace the battery immediately when the UPS indicates battery replacement is necessary. • Replace battery at the end of its service life. • Replace batteries with the same number and type of batteries as originally installed in the equipment. • Replace the battery immediately when the UPS indicates a battery overtemperature condition, or UPS internal overtemperature, or when there is evidence of electrolyte leakage. Power off the UPS, unplug it from the AC input, and disconnect the batteries. Do not operate the UPS until the batteries have been replaced. • *Replace all battery modules (including the modules in External Battery Packs) which are older than one year, when installing additional battery packs or replacing the battery module(s). **Failure to follow these instructions could result in equipment damage and minor or moderate injury.**

*Contact APC by Schneider Electric Worldwide Customer Support to determine the age of the installed battery modules.
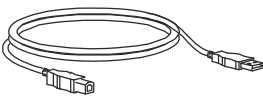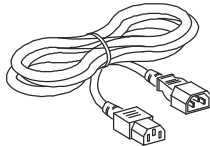
Inventory
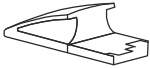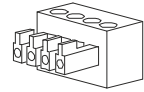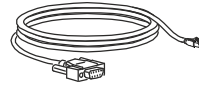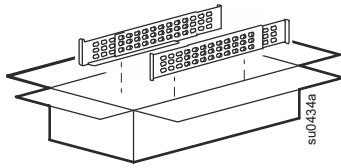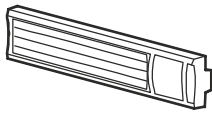
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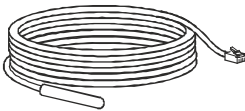(4)

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Not included with
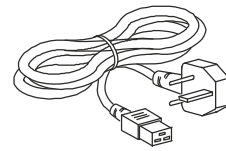SMX3000RMJ2U model

(2)
230 V models only
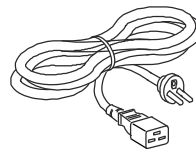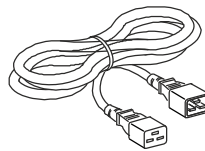
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1 Documentation CD
1 PowerChute software CD not included with
SMX3000RMJ2U model

Models with preinstalled network cards

High voltage models only

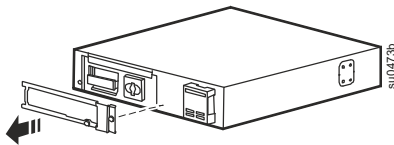# Installation

Remove the battery

⚠ CAUTION
DAMAGE TO EQUIPMENT OR PERSONNEL
• The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
• Remove the battery before installing the UPS in a rack.
Failure to follow these instructions could result in equipment damage and minor or moderate injury.

Use the battery handle to pull the battery out of the unit.

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❷ su0477b

❸ su0474b
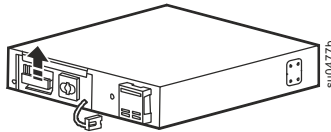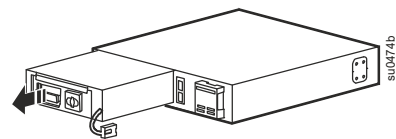
Four post rack installation

Use the APC Four Post Rail Kit (supplied).

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❷ su0552a

❸ su0469a

❹ su0559a

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Two post rack installation

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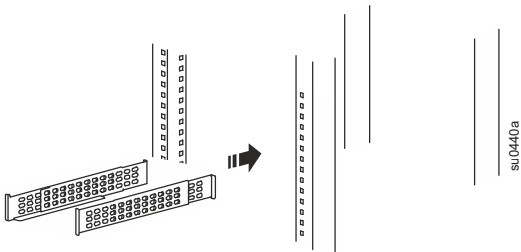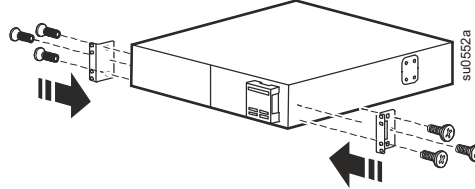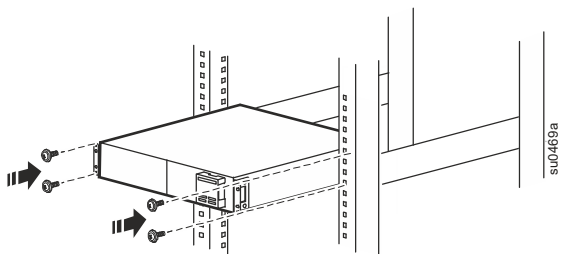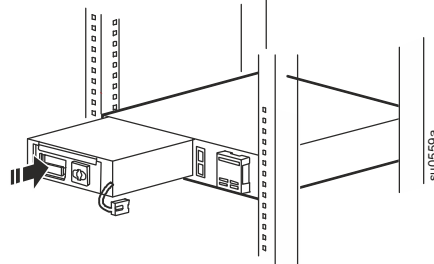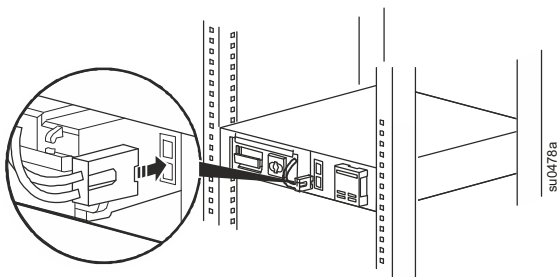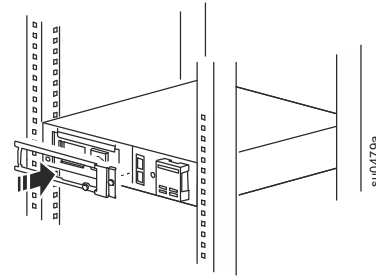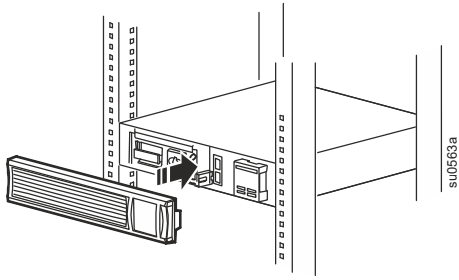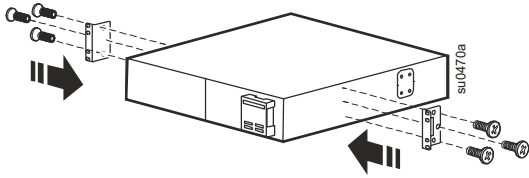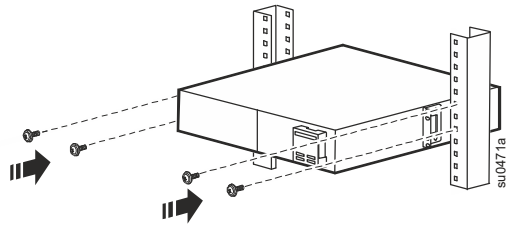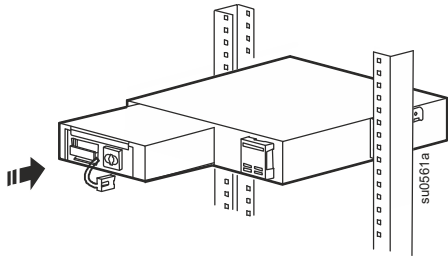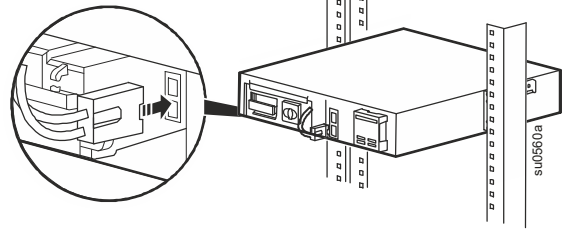
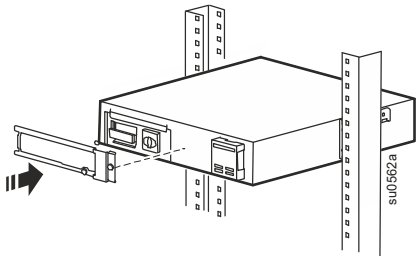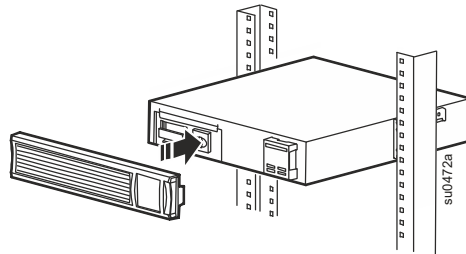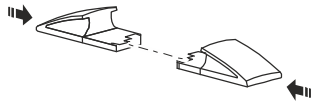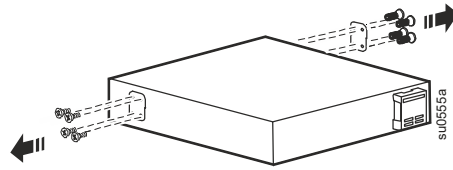## Rack to tower conversion

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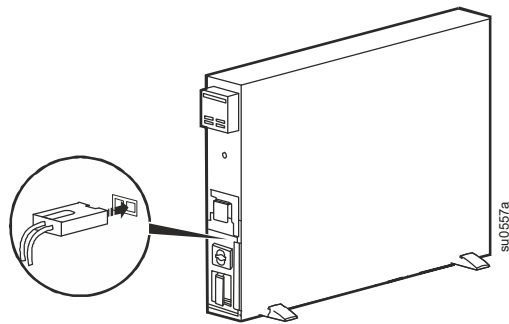
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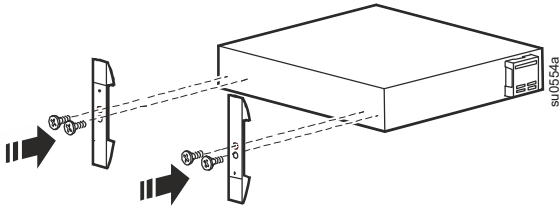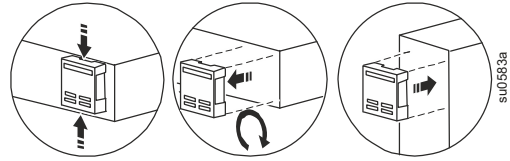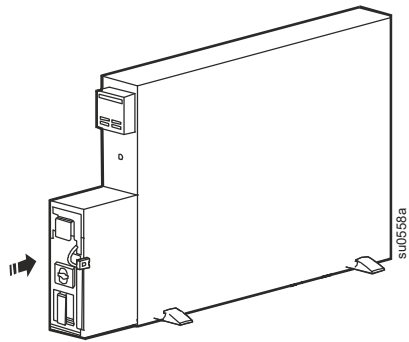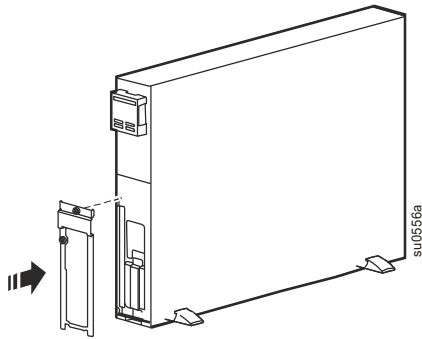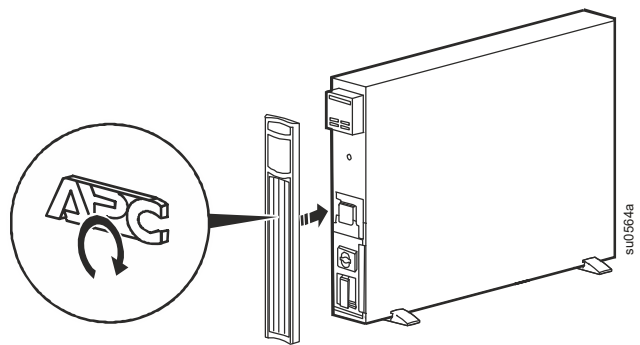
Start-Up and Configuration

Overview

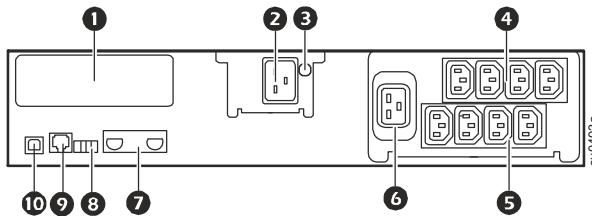**2000 VA Low Voltage**

2200/3000 VA High Voltage
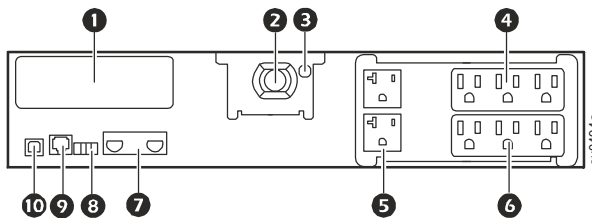

2200 VA Low Voltage

3000 VA Low Voltage

❶ SmartSlot
❷ UPS input
❸ Chassis ground screw
❹ Controllable Outlet Group 1
❺ Controllable Outlet Group 2
❻ Controllable Outlet Group 3
❼ External battery pack connector
❽ EPO connector
❾ Serial port
❿ USB port

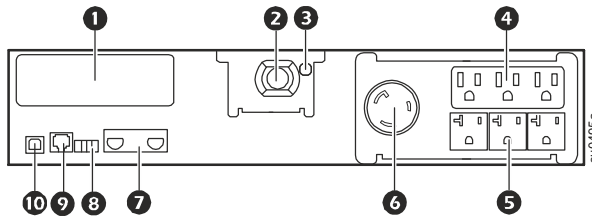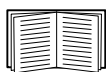## Controllable outlet groups

The outlets on the UPS are configured into groups. To configure the controlled outlet features, use the Advanced menus on the display interface and navigate to: **Main Menu > Control > Outlet1 Control.**

Emergency Power Off Connection

Refer to the user manual included on the CD that is supplied with the unit for more information on how to connect the Emergency Power Off (EPO) Switch.
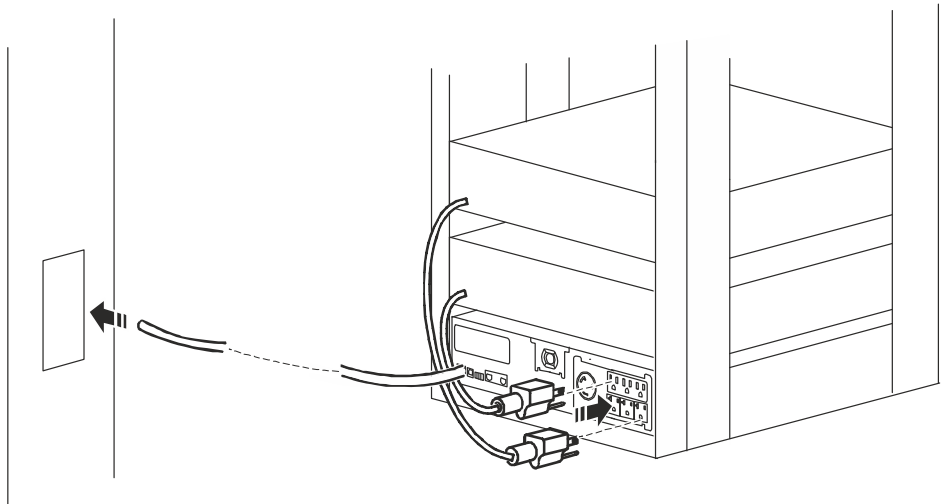
Electrical connections

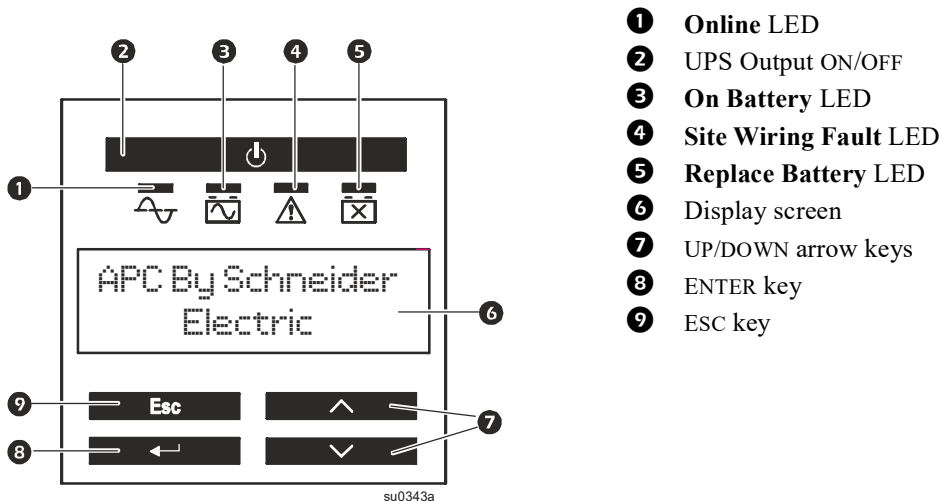| ⚠ **CAUTION** |
| --- |
| **HAZARD OF ELECTRICAL SHOCK** |
| • Adhere to all local and national electrical codes. |
| • Wiring should be performed by qualified electrician. |
| • Always connect the UPS to a grounded outlet. |
| **Failure to follow these instructions could result in minor or moderate injury.** |

1. Connect equipment to the outlets on the rear panel of the UPS.

2. Connect the UPS to the building utility power.

3. To use the UPS as a master ON/OFF switch, turn on all the equipment that is connected to the UPS.

4. Press the ON/OFF button on the front panel of the UPS to turn on the UPS and all connected equipment.

5. Refer to the Switched Outlet Groups section in the Operation manual for information on how to use the switched outlet groups.

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Display Interface

❶ **Online** LED
❷ UPS Output ON/OFF
❸ **On Battery** LED
❹ **Site Wiring Fault** LED
❺ **Replace Battery** LED
❻ Display screen
❼ UP/DOWN arrow keys
❽ ENTER key
❾ ESC key

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