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Addendum for the X163 Redundant Switch Models   English

This addendum documents the following X163 Redundant Switch models:

    SU042X163 120 Vac

    SU045X163 208 Vac

    SU044X163 230 Vac

Input, Output, and Voltage Configurations

The X163 Redundant Switch models have different input, output, and voltage configurations than the standard Redundant Switch models. The dimensions of these units are identical however.

Model	Voltage (Vac)	Maximum Load	Input Plugs	Output Receptacles
SU042X163	120	3000 VA: 16A	Two NEMA L5-20P	One NEMA L5-20R
SU045X163	208	5000 VA:24A	Two NEMA L6-30P	One NEMA L6-30R
SU044X163	230	3000 VA: 13A	Two IEC-309 16A	One IEC-309 16A

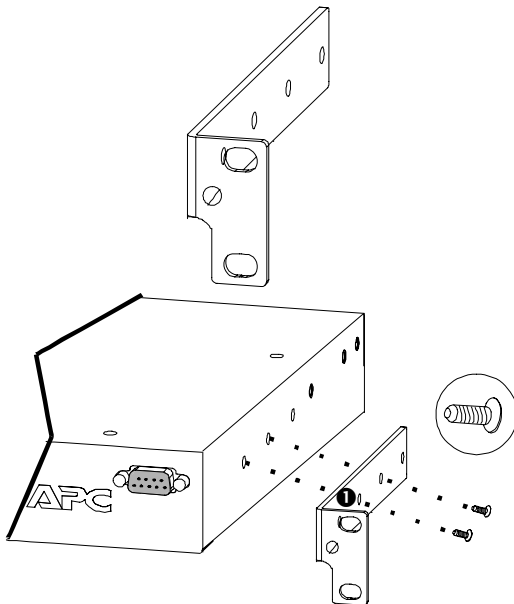**Table 1:** Input, Output and Voltage Configurations

Installing the X163 Redundant Switch

The X163 Redundant Switch can be mounted in two ways:

    inserted into a standard 19-inch rack, consuming 1U of rack space,

or

    attached to the side of a standard four-post rack (450 mm spacing), consuming 0U of rack space.

Install the Mounting Brackets

1. Locate the 0U/1U mounting brackets in the literature kit supplied with the unit.

    The right and left brackets are different (the right bracket is shown). Each ear has four mounting holes, the ear itself hides the front hole).
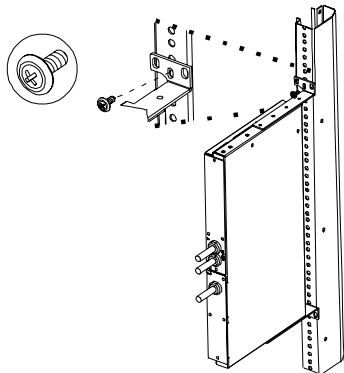
2. Identify where in the rack you want to mount the X163 Redundant Switch. Select a position on the side of a rear vertical rack post.

3. Attach the 0U mounting brackets to the X163 Redundant Switch.

    The sides of the Redundant Switch have four matching holes at the front. To leave room to route the cables and place the connectors flush with the front of the rack, align the second hole from the front of each ear, shown at ❶, above, with the front hole in the corresponding side of the Redundant Switch. (This may vary—align the two holes that best meet your needs.) Secure the ear to the Redundant Switch with the provided screws. The ears should then be forward of the front of the Redundant Switch and at right angles away from it, so that they can be attached to the rack.

How to Mount the X163 Redundant Switch on the Side of a Four-Post Rack (0U mounting)

> **Note:**
>
> **The X163 Redundant Switch occupies 19 inches (483 mm) vertical space with mounting holes centered at 17.7 inches (450 mm). Before mounting the unit, make sure that it will not interfere with other equipment or cables in the rack.**
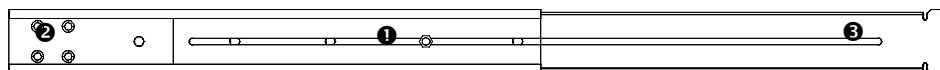
1. Place the Redundant Switch vertically on the rear rack post. Position the front of the Redundant Switch against the rack post so that the rear panel is accessible.

2. Use the ornamental screws provided in the literature kit to secure the unit to the rack. Attach the top screw first, then the bottom screw.

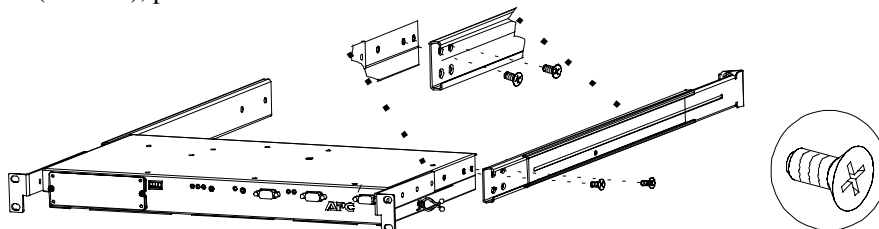*How to Mount the X163 Redundant Switch in a Four-Post Rack (1U mounting)*

- The mounting rails are designed to fit a four-post rack. If you are using a two-post rack, use the mounting brackets alone to mount the Redundant Switch.

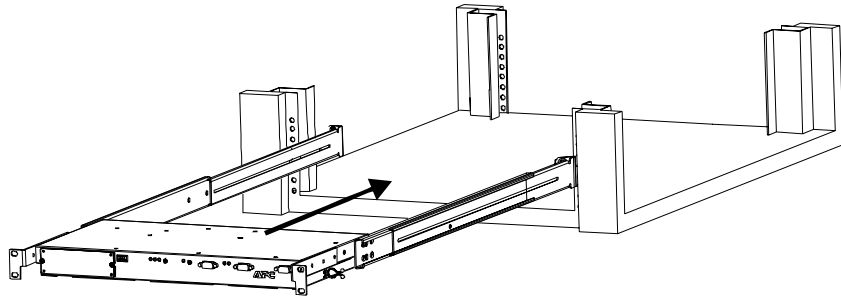- If you are using a two-post rack, position the mounting brackets in a midpoint position.

1. Select a location for the Redundant Switch in your rack. The Redundant Switch occupies a space of 1U. Some racks have tick marks to indicate the U-spaces.

   - Select a rack location with adequate air flow that is free from excessive dust. Ensure that the air vents on the sides of the Redundant Switch are not blocked.

   - Do not operate the Redundant Switch where temperature or humidity are outside the limits listed in the Specifications table in the *User's Manual*.

2. Locate the 1U mounting rails and remove the slide screw and nut, shown at ❶. Leave the front ❷ and rear ❸ segments, assembled.
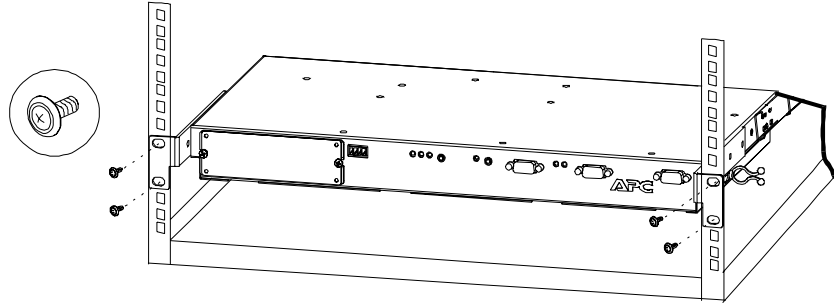
3. The sides of the Redundant Switch have two holes at the rear of the unit. Align the top two holes on the front rail segment ❷, with the two holes at the rear of the Redundant Switch and secure them with the flat head screws (#8 x ¼"), provided.
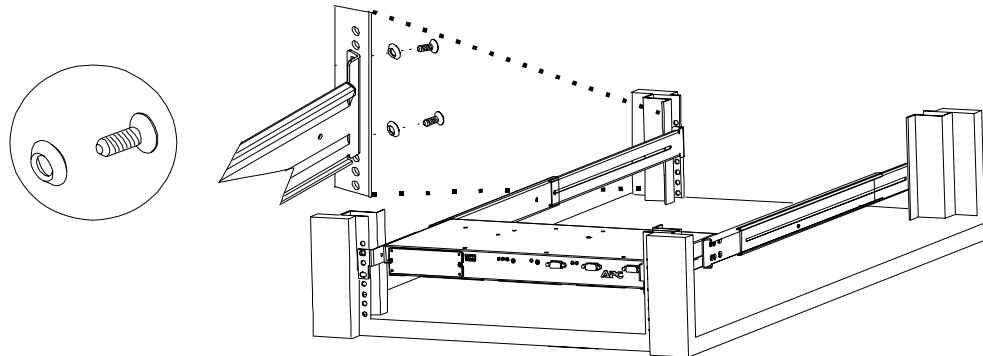
4. Support the Redundant Switch from the bottom or rear of the unit and slide it into the rack.
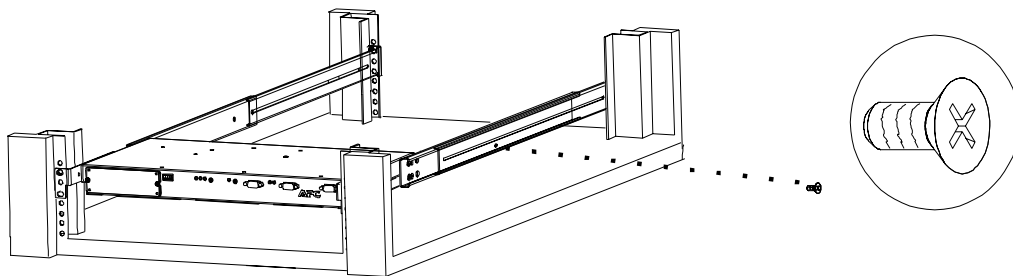
5. Secure the Redundant Switch into position by inserting two ornamental (10-32) screws through the front of the mounting bracket on each side.

6. From the rear of the rack, extend the rear rail segment to the rear rack post. Use the (flat head screws #10 x ½") and cup washers provided, to attach the rail to the rack post.

7. Insert and tighten the slide screws and nuts to secure the front and rear rail segments.
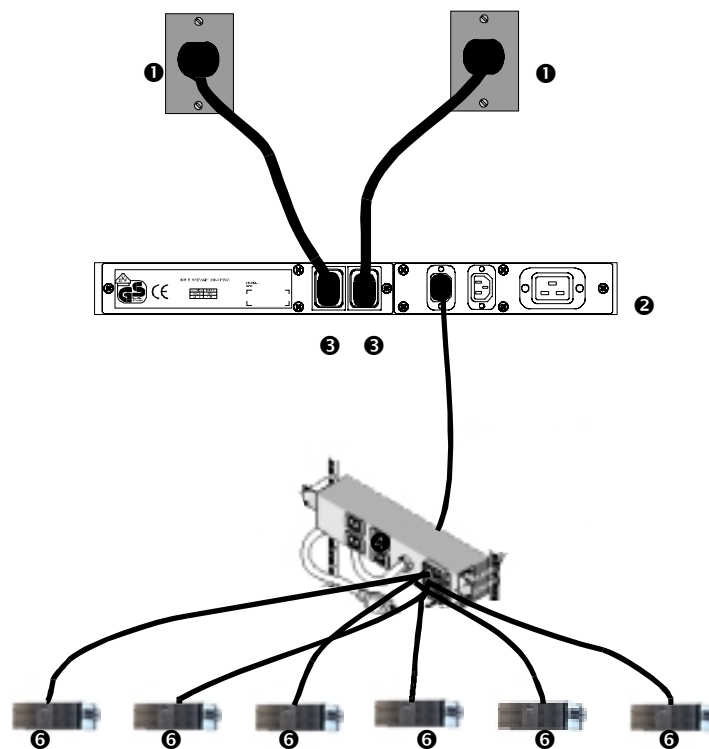
Power Distribution

The X163 Redundant Switch has two 12 ft (3.66 meter) input power cords. When possible, connect each power cord to a separate AC power source. There is one output receptacle. Connecting a PDU directly to the output receptacle allows you to connect additional equipment to the Redundant Switch. Table 1, page 1, lists the receptacles on each model.

<table>
<tr><td>Caution:</td></tr>
<tr><td>Check the electrical specifications of all equipment connected to the Redundant Switch to avoid overloading the AC circuit.</td></tr>
</table>

Serial Ports

All Redundant Switches have three serial ports. The X163 Redundant Switch ships with dust covers on these ports. The serial ports are only necessary if you connect two Smart-UPS units to the Redundant Switch. Serial ports serve no purpose when the Redundant Switch functions as a transfer switch. Refer to the *Redundant Switch User's Manual* for information on using the unit with Smart-UPSs.

Configuration

Description	120 Vac	208 Vac	230 Vac	
❶ Utility Power Connection	Two NEMA L5-20	Two NEMA L6-30	Two IEC 309-16a	
❷ Redundant Switch Model	SU042X163	SU045X163	SU044X163	
❸ PDU Connects into . . .	One NEMA L5-20	One NEMA L6-30	One IEC 309-16a	
❹ PDU Model Number	120V, 16a	208V, 24a	230V, 13a	
❺ Server Connects into . . .	NEMA L5-20	IEC 320-C19	IEC 320-C13	
❻ Server Type	120 V PowerEdge	208 V PowerEdge 8450	230 V PowerEdge	120 V PowerEdge
Maximum Number of Servers	6	2	2	4