

Replacing an MX960 AC or High-Voltage Second-Generation Universal (HVAC/HVDC) Power Supply


9-Mar-21




Removing an MX960 AC or High-Voltage Second-Generation Universal (HVAC or HVDC) Power Supply [🔗](#)

Before you remove a power supply, be aware of the following:


 **NOTE:** The minimum number of power supplies must be present in the router at all times.

 **CAUTION:** To maintain proper cooling and prevent thermal shutdown of the operating power supply unit, each power supply slot must contain either a power supply or a blank panel. If you remove a power supply, you must install a replacement power supply or a blank panel shortly after the removal.

 **NOTE:** After powering off a power supply, wait at least 60 seconds before turning it back on.

To remove an AC or universal (HVAC/HVDC) power supply (see [Figure 1](#)):

1. Switch off the dedicated customer site circuit breaker for the power supply, and remove the power cord from the power source. If there is more than one cord, remove both. Follow the ESD and disconnection instructions for your site.

 **NOTE:** If removing a universal (HVAC/HVDC) power supply from a DC source, make sure that the voltage across the DC power source cable leads is 0 V and that there is no chance that the cables might become active during the removal process.

2. Attach an ESD grounding strap to your bare wrist, and connect the other end of the strap to an

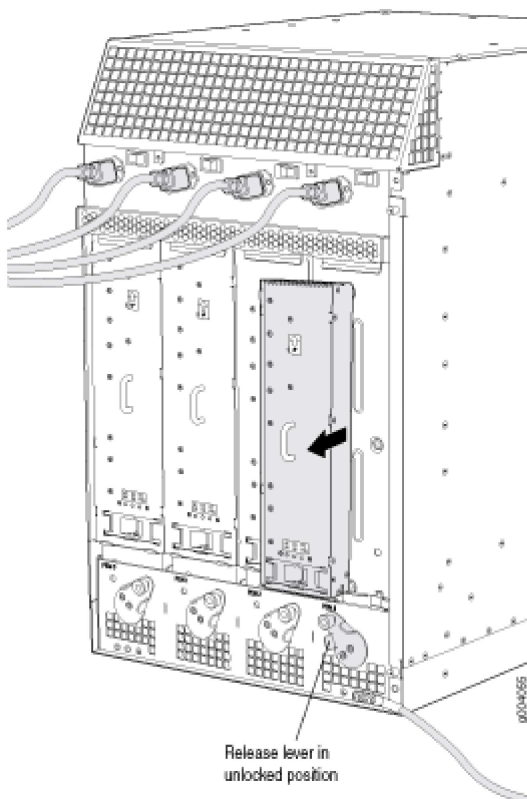
ESD grounding point.

3. Move the AC input switch in the chassis above the power supply to the off (O) position.
4. While grasping the handle on the power supply faceplate with one hand, use your other hand to pull the spring-loaded locking pin in the release lever away from the chassis and turn the release lever counterclockwise until it stops.
5. Let go of the locking pin in the release lever. Ensure that the pin is seated inside the corresponding hole in the chassis.
6. Pull the power supply straight out of the chassis.



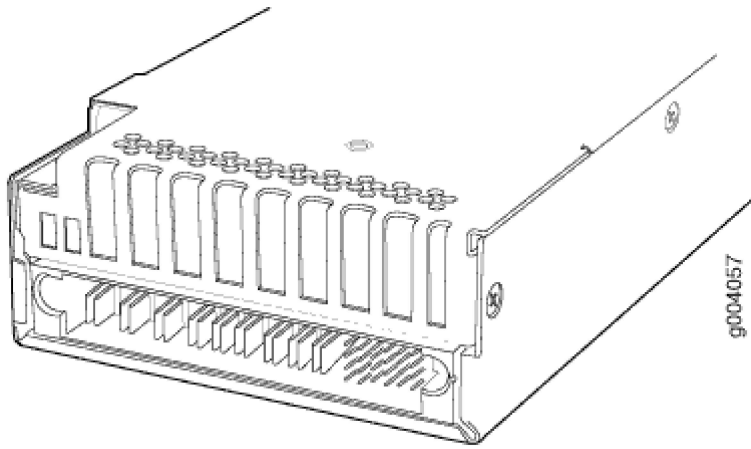
WARNING: Do not touch the power connector on the top of the power supply (see [Figure 2](#)). It can contain dangerous voltages.

Figure 1: Removing a AC Power Supply



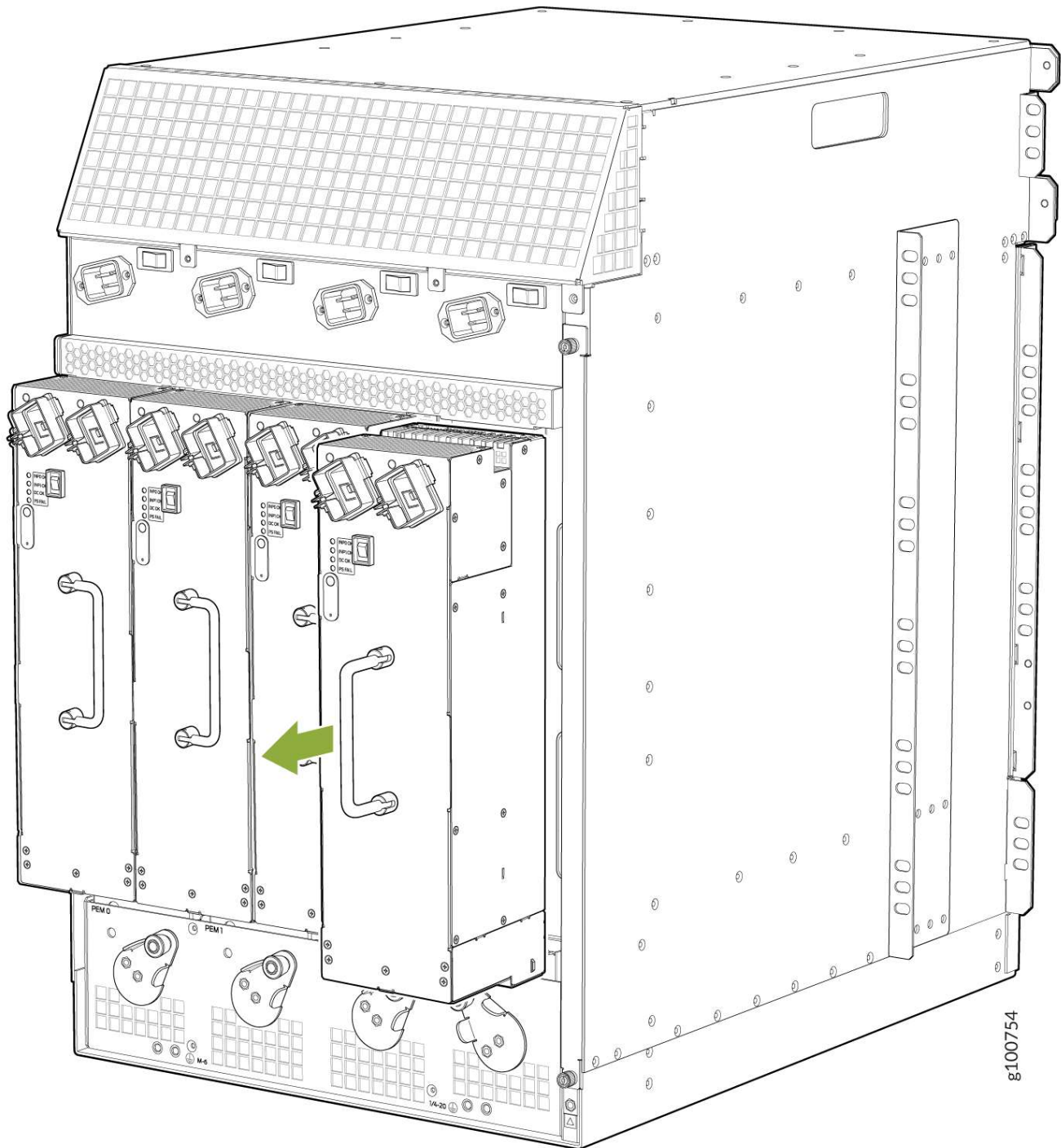
NOTE: The chassis is shown without the extended cable manager.

Figure 2: Top of the PowerSupply Showing Midplane Connector



Connector end of AC or DC power supply

Figure 3: Removing a High-Capacity Second-Generation AC Power Supply




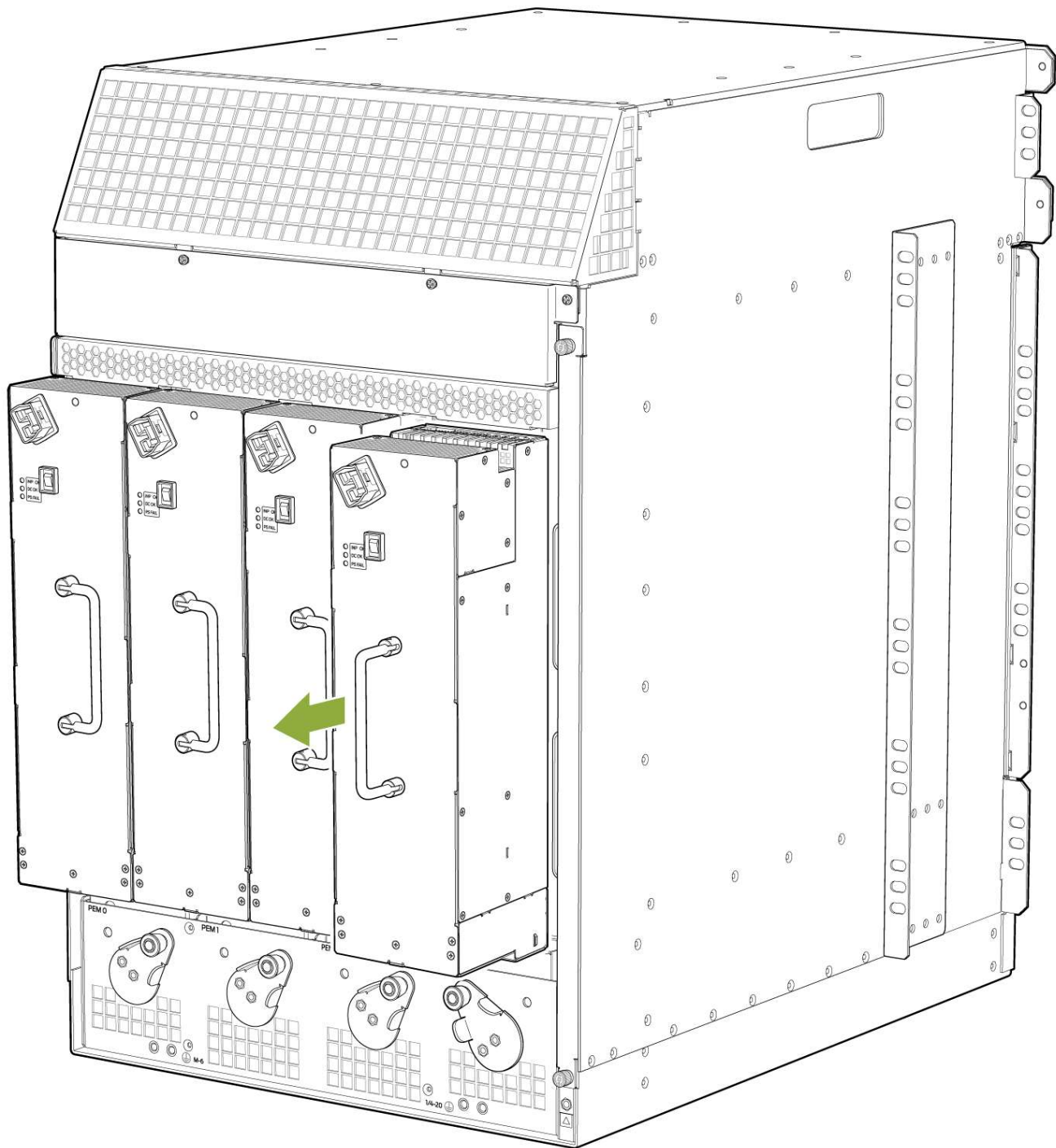

 NOTE: The chassis is shown without the extended cable manager.

Figure 4: Removing a High-Voltage Second-Generation Universal (HVAC/HVDC) Power Supply



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 NOTE: The chassis is shown without the extended cable manager.

SEE ALSO

[Preventing Electrostatic Discharge Damage to an MX960 Router](#)

[Connecting an MX960 AC Power Supply Cord](#)

[Disconnecting an MX960 AC Power Supply Cord](#)

[Installing a MX960 AC Power Supply or High-Voltage Second-Generation Universal \(HVAC or HVDC\)](#)

[MX960 AC Power Electrical Safety Guidelines and Warnings](#)

[MX960 AC Power Supply Description](#)

Installing a MX960 AC Power Supply or High-Voltage Second-Generation Universal (HVAC or HVDC) [↗](#)

To install an AC or universal (HVAC/HVDC) power supply (see [Figure 5](#)):

1. Attach an ESD grounding strap to your bare wrist, and connect the other end of the strap to an ESD grounding point.
2. Move the AC input switch in the chassis above the empty power supply slot to the off (O) position.

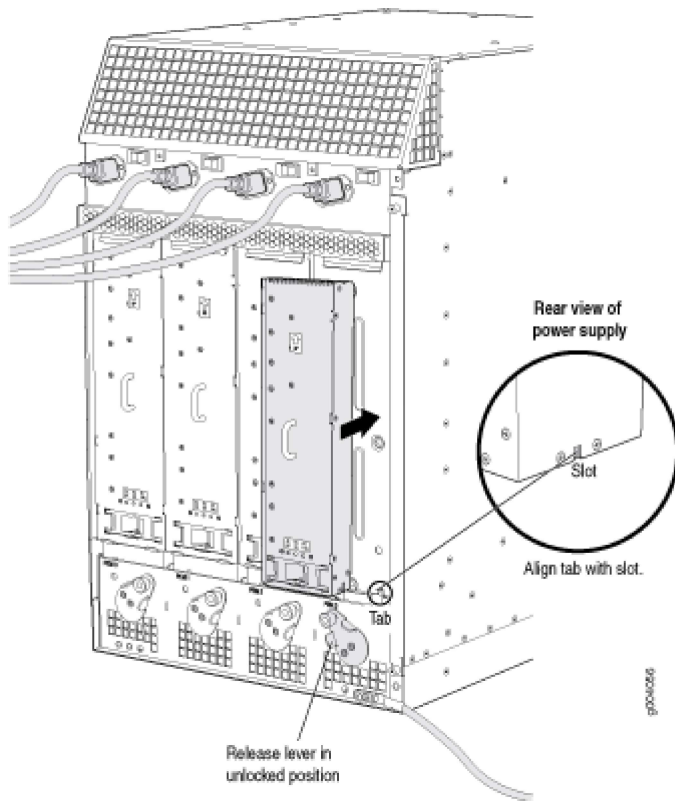


NOTE: When upgrading to enhanced power supplies, always upgrade power supplies in adjacent slots.

3. Ensure that the release lever below the empty power supply slot is locked in the counterclockwise position (see [Figure 5](#)).
If necessary, pull the spring-loaded locking pin in the release lever away from the chassis and turn the release lever counterclockwise until it stops. Let go of the locking pin in the release lever. Ensure that the pin is seated inside the corresponding hole in the chassis.
4. Using both hands, slide the power supply straight into the chassis until the power supply is fully seated in the chassis slot. The power supply faceplate should be flush with any adjacent power supply faceplates.
The small tab on the metal housing that is controlled by the release lever must be inside of the corresponding slot at the bottom of the power supply (see [Figure 5](#)). This tab is used to pull the power supply down in the chassis slot, prior to removing the power supply.
5. While firmly pushing the handle on the power supply faceplate with one hand, use your other hand to pull the spring-loaded locking pin in the release lever away from the chassis and turn the release lever clockwise until it stops.

6. Let go of the locking pin in the release lever. Ensure that the pin is seated inside the corresponding hole in the chassis.
7. Move the AC input switch in the chassis above the power supply to the on (—) position and observe the status LEDs on the power supply faceplate. If the power supply is correctly installed and functioning normally, the **AC OK** and **DC OK** LEDs light steadily, and the **PS FAIL** LED is not lit.

Figure 5: Installing an AC Power Supply




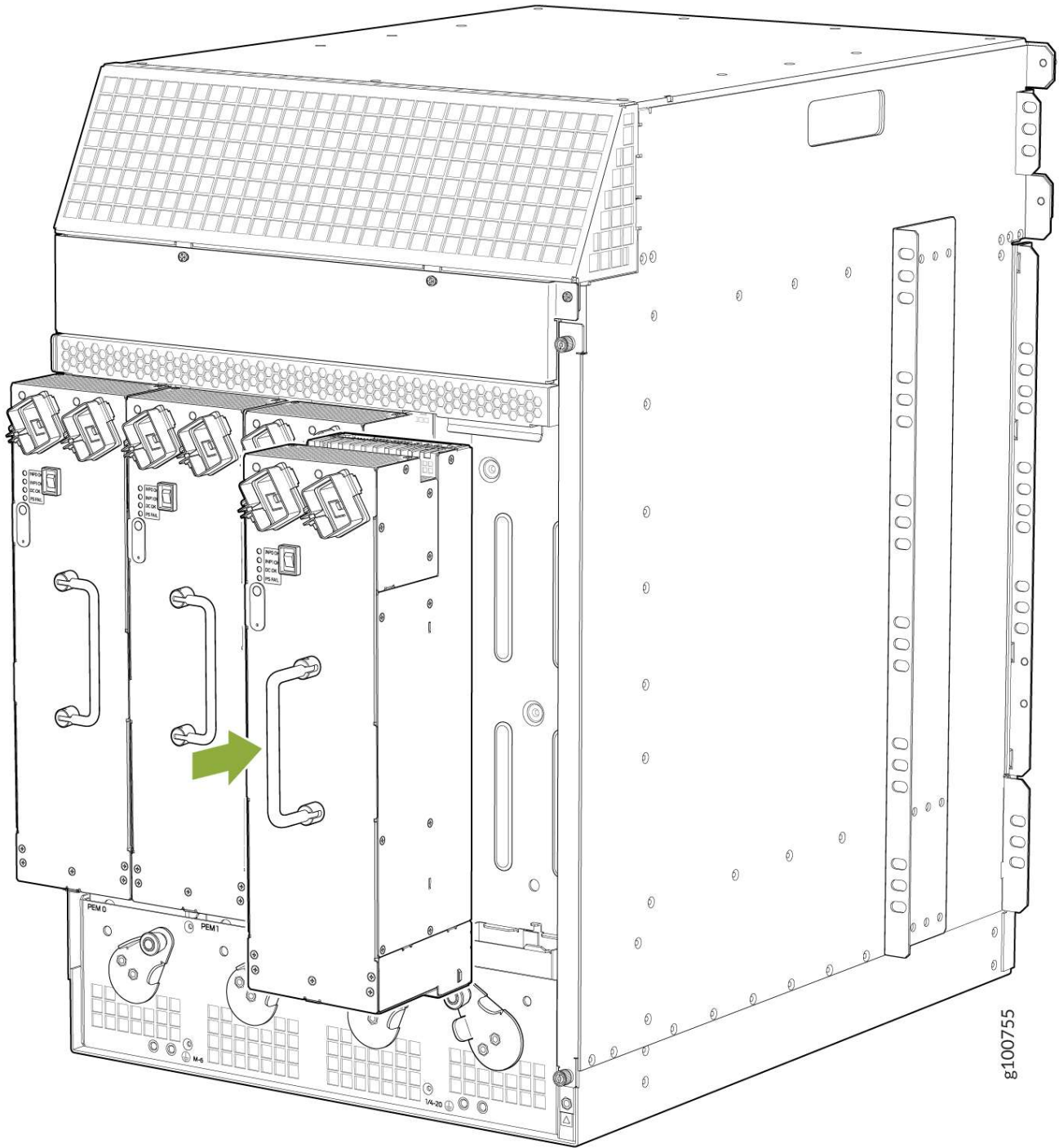
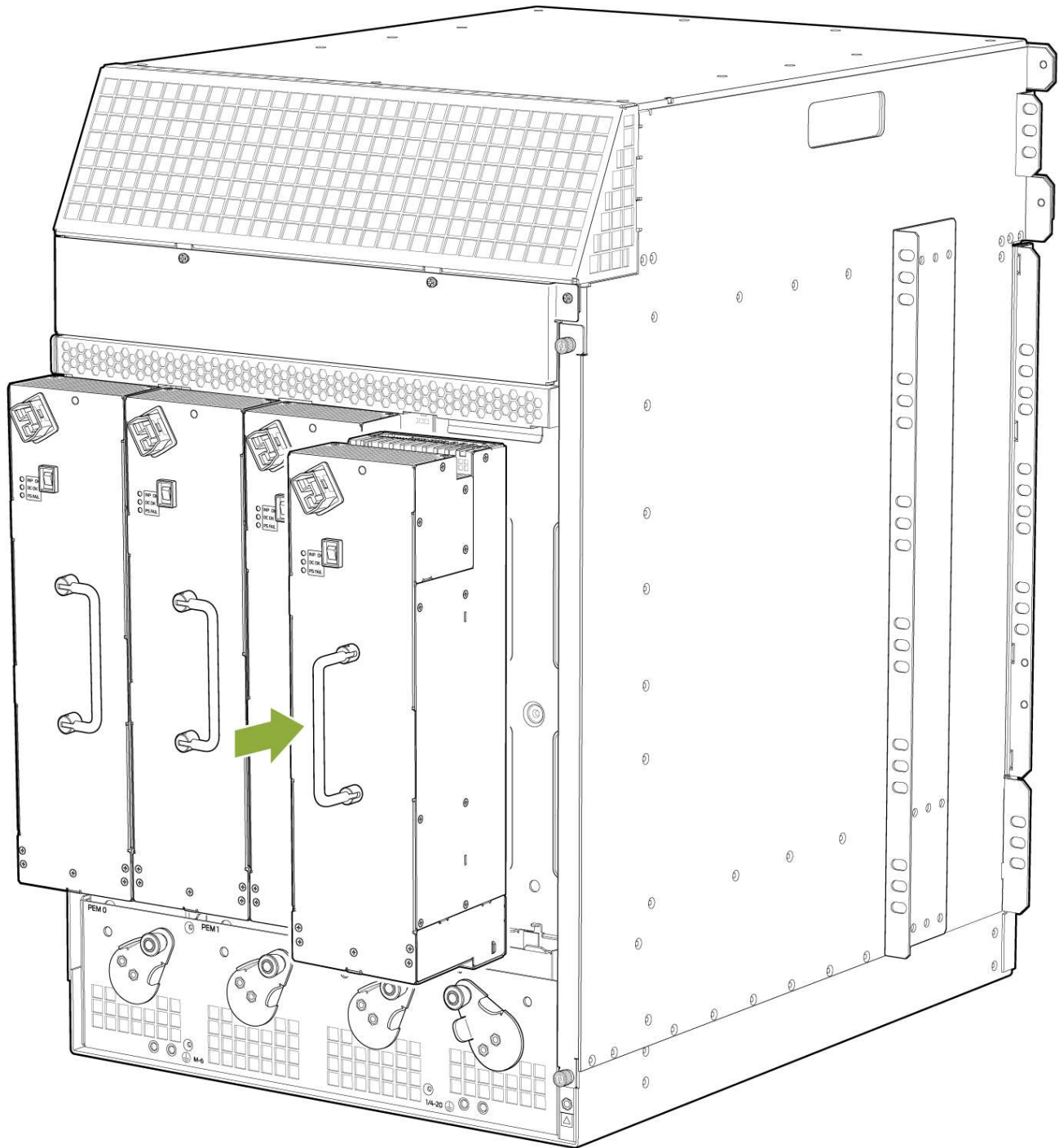
 **NOTE:** The chassis is shown without the extended cable manager.

Figure 6: Installing a High-Capacity Second-Generation AC Power Supply



i NOTE: The chassis is shown without the extended cable manager.

Figure 7: Installing a High-Voltage Second-Generation Universal (HVAC or HVDC) Power Supply



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i NOTE: The chassis is shown without the extended cable manager.

i NOTE: If you are replacing the MX960-PSM-5K-AC or MX960-PSM-HV power supplies on an existing chassis, make sure to replace the agency label on the chassis with the new label. See [MX960 Chassis Serial Number and Agency Label](#).

SEE ALSO

[Preventing Electrostatic Discharge Damage to an MX960 Router](#)

[MX960 AC Power Supply Description](#)

[MX960 AC Power Electrical Safety Guidelines and Warnings](#)

[Removing an MX960 AC or High-Voltage Second-Generation Universal \(HVAC or HVDC\) Power Supply](#)

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