



Before You Begin

This section provides information on how you can prepare your site for safely installing the Cisco SNS-3415 or Cisco SNS-3495 appliance.

- [Safety Guidelines, on page 1](#)
- [Unpack and Inspect the Server, on page 2](#)
- [Prepare for Server Installation, on page 3](#)
- [Server Specifications, on page 5](#)

Safety Guidelines



Note Before you install, operate, or service a Cisco SNS-3415 or Cisco SNS-3495 appliance, review the [Regulatory Compliance and Safety Information for Cisco SNS-3415, Cisco SNS-3495, Cisco SNS-3515, and Cisco SNS-3595 Appliances](#) for important safety information.



Warning **Warning: IMPORTANT SAFETY INSTRUCTIONS**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

Statement 1071



Warning Warning: To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of: 40° C (104° F).

Statement 1047

**Warning**

Warning: The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.

Statement 1019

**Warning**

This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 250 V, 15 A.

Statement 1005

**Warning**

Installation of the equipment must comply with local and national electrical codes.

Statement 1074

When you are installing a server, use the following guidelines:

- Plan your site configuration and prepare the site before installing the server. See the [Cisco UCS Site Preparation Guide](#) for the recommended site planning tasks.
- Ensure that there is adequate space around the server to allow for servicing the server and for adequate airflow. The airflow in this server is from front to back.
- Ensure that the air-conditioning meets the thermal requirements listed in the [Server Specifications, on page 5](#).
- Ensure that the cabinet or rack meets the requirements listed in the [Rack Requirements, on page 4](#).
- Ensure that the site power meets the power requirements listed in the [Power Specifications, on page 6](#). If available, you can use an uninterruptible power supply (UPS) to protect against power failures.

**Caution**

Avoid UPS types that use ferroresonant technology. These UPS types can become unstable with systems such as the Cisco UCS, which can have substantial current draw fluctuations from fluctuating data traffic patterns.

Unpack and Inspect the Server

**Caution**

When handling internal server components, wear an ESD strap and handle modules by the carrier edges only.

**Note**

Keep the shipping container in case the server requires shipping in the future.

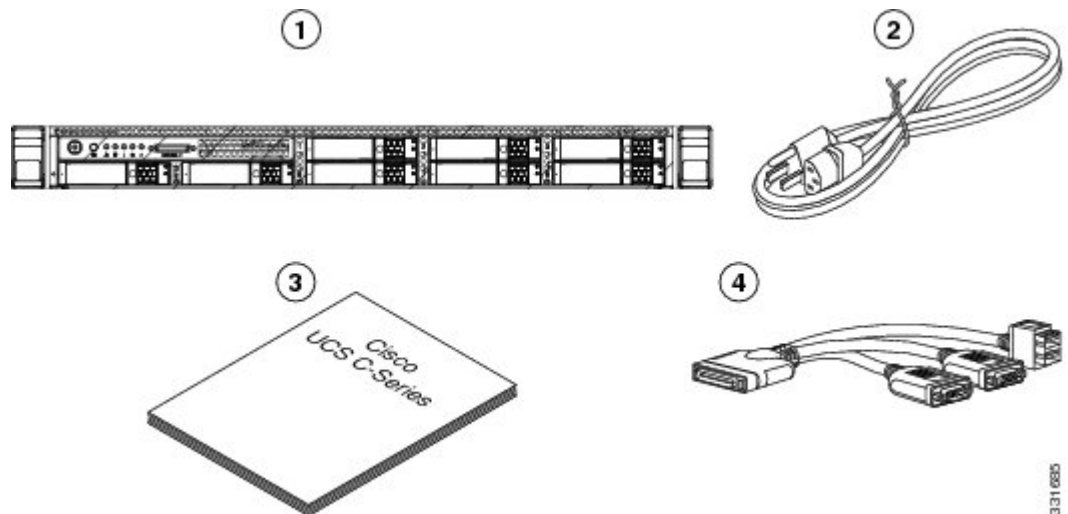


Note The chassis is thoroughly inspected before shipment. If any damage occurred during transportation or any items are missing, contact your customer service representative immediately.

To inspect the shipment:

- Step 1** Remove the server from its cardboard container and save all packaging material.
- Step 2** Compare the shipment to the equipment list provided by your customer service representative and the list given below. Verify that you have all items.
- Step 3** Check for damage and report any discrepancies or damage to your customer service representative. Have the following information ready:
- Invoice number of shipper (see the packing slip)
 - Model and serial number of the damaged unit
 - Description of damage
 - Effect of damage on the installation

Figure 1: Shipping Box Contents



Prepare for Server Installation

- [Installation Guidelines](#), on page 4
- [Rack Requirements](#), on page 4
- [Equipment Requirements](#), on page 5
- [Slide Rail Adjustment Range](#), on page 5

Installation Guidelines



Warning Warning: To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of: 40° C (104° F).

Statement 1047



Warning Warning: The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.

Statement 1019



Warning This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 250 V, 15 A.

Statement 1005



Warning Installation of the equipment must comply with local and national electrical codes.

Statement 1074



Caution Avoid UPS types that use ferroresonant technology. These UPS types can become unstable with systems such as the Cisco UCS, which can have substantial current draw fluctuations from fluctuating data traffic patterns.

When you are installing a server, use the following guidelines

- Plan your site configuration and prepare the site before installing the server. See the [Cisco UCS Site Preparation Guide](#) for the recommended site planning tasks.
- Ensure that there is adequate space around the server to allow for servicing the server and for adequate airflow. The airflow in this server is from front to back.
- Ensure that the air-conditioning meets the thermal requirements listed in the [Server Specifications, on page 5](#).
- Ensure that the cabinet or rack meets the requirements listed in the [Rack Requirements, on page 4](#).
- Ensure that the site power meets the power requirements listed in the [Power Specifications, on page 6](#). If available, you can use an uninterruptible power supply (UPS) to protect against power failures.

Rack Requirements

This section provides the requirements for the standard open racks.

The rack must be of the following type:

- A standard 19-in. (48.3-cm) wide, four-post EIA rack, with mounting posts that conform to English universal hole spacing, per section 1 of ANSI/EIA-310-D-1992.
- The rack post holes can be square 0.38-inch (9.6 mm), round 0.28-inch (7.1 mm), #12-24 UNC, or #10-32 UNC when you use the supplied slide rails.
- The minimum vertical rack space per server must be one RU, equal to 1.75 in. (44.45 mm).

Equipment Requirements

The slide rails supplied by Cisco Systems for this server do not require tools for installation. The inner rails (mounting brackets) are pre-attached to the sides of the server.

Slide Rail Adjustment Range

The slide rails for this server have an adjustment range of 24 to 36 inches (610 to 914 mm).

Server Specifications

This section lists the technical specifications for the server:

Physical Specifications

The following table lists the physical specifications of the server.

Table 1: Physical Specifications

Description	Specification
Height	1.7 in. (4.3 cm)
Width	16.9 in. (42.9 cm)
Depth	28.5 in. (72.4 cm)
Weight (fully loaded chassis)	35.6 lb. (16.1 Kg)

Environmental Specifications

The following table lists the environmental specifications of the server.

Table 2: Environmental Specifications

Description	Specification
Temperature, operating	41 to 104°F (5 to 40°C) Derate the maximum temperature by 1°C per every 305 meters of altitude above sea level.
Temperature, non-operating	-40 to 149°F (-40 to 65°C)
Humidity (RH), noncondensing	10 to 90%
Altitude, operating	0 to 10,000 feet
Altitude, non-operating	0 to 40,000 feet
Sound power level Measure A-weighted per ISO7779 LwAd (Bels) Operation at 73°F (23°C)	5.4
Sound pressure level Measure A-weighted per ISO7779 LpAm (dBA) Operation at 73°F (23°C)	37

Power Specifications

The power specifications are listed in the following section:

650-Watt Power Supply



Note You can get more specific power information for your exact server configuration by using the [Cisco UCS Power Calculator](#).



Note Do not mix power supply types in the server. Both power supplies must be either 650W.

Table 3: Cisco SNS-3400 Series Server 650-Watt Power Supply Specifications

Description	Specification
AC input voltage range	90 to 264 VAC (self-ranging, 180 to 264 VAC nominal)
AC input frequency	Range: 47 to 63 Hz (single phase, 50 to 60Hz nominal)

Description	Specification
AC line input current (steady state)	7.6 A peak at 100 VAC 3.65 A peak at 208 VAC
Maximum output power for each power supply	650 Watts
Power supply output voltage	Main power: 12 VDC Standby power: 12 VDC

