



Specifications

Cable and technical specifications for Catalyst 4500 series switches are provided in the following sections:

- [Catalyst 4503 Switch Specifications, page A-2](#)
- [Catalyst 4506 Switch Specifications, page A-3](#)
- [Catalyst 4507R Switch Specifications, page A-5](#)
- [Catalyst 4510R Switch Specifications, page A-7](#)
- [Catalyst 4500 Series Power Supplies, page A-9](#)



Note

Specifications for individual switching modules and supervisor engines, including power consumption and thermal output information, are in the *Catalyst 4500 Series Module Installation Guide*, available online at: http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/configuration/notes/OL_25315.html



Note

When populating empty chassis slots, start filling the upper slots first and work down to the bottom slots.

Catalyst 4503 Switch Specifications

Table A-1 lists the Catalyst 4503 switch specifications.

Table A-1 Catalyst 4503 Switch Specifications

| Item | Specification |
|--|--|
| Environmental | |
| Temperature, ambient operating | 32 to 104°F (0 to 40°C) |
| Temperature, ambient nonoperating and storage | −40 to 167°F (−40 to 75°C) |
| Humidity (RH), ambient (noncondensing), operating | 10 to 90% |
| Humidity (RH), ambient (noncondensing), nonoperating and storage | 5 to 95% |
| Altitude, operating and nonoperating | −200 to 6500 ft (−60 to 2000 m) |
| Switching Components | |
| Backplane | 24 Gbps full duplex backplane 4 Gbps Uplinks |
| Port density | 116 ports when using a Catalyst 4500 Series Supervisor Engine II-Plus TS, 96 ports with other supervisor engines |
| Inline power | integrated support, 820 W per switching module |
| Physical Characteristics | |
| Dimensions (H x W x D) | <ul style="list-style-type: none"> • 12.25 x 17.31 x 12.50 in. (31.12 x 43.97 x 31.70 cm) • 7 RU |
| Weight | Minimum weight: 31.25 lb (14.1 kg) Maximum weight: 75 lb (34 kg). Chassis and backplane: 29 lb (13.1 kg) Fan tray: 2.25 lb (1.0 kg) Power Supply: Weight varies according to the module. Refer to the Catalyst 4500 Series Power Supplies, page A-9 for the module you are using. |

Table A-1 Catalyst 4503 Switch Specifications (continued)

| Item | Specification |
|-------------------------------|---------------|
| Airflow | |
| Switch | Right to left |
| Power supply | Front to back |
| Power | |
| PoE supplied | -48 VDC |
| Power to Modules and fans | 12 VDC |
| Power to backplane components | 3.3 VDC |
| Redundancy | |
| Supervisor engine | no |
| Power supply | 1 + 1 |

Catalyst 4506 Switch Specifications

Table A-2 lists the Catalyst 4506 switch specifications.

Table A-2 Catalyst 4506 Switch Specifications

| Item | Specification |
|--|---|
| Environmental | |
| Temperature, ambient operating ambient nonoperating and storage | 32 to 104°F (0 to 40°C) -40 to 167°F (-40 to 75°C) |
| Humidity (RH), ambient (noncondensing): operating nonoperating and storage | 10 to 90% 5 to 95% |
| Altitude: operating nonoperating | -500 to 6500 ft (-150 to 2000 m) -1000 to 30,000 ft (-300 to 9150 m) |

Table A-2 Catalyst 4506 Switch Specifications (continued)

| Item | Specification |
|---------------------------------|--|
| Switching Components | |
| Backplane | 60 Gbps full duplex 4 Gbps Uplinks |
| Port density | 240 (max) |
| Inline power | integrated support, 820 W per line card |
| Physical Characteristics | |
| Dimensions (H x W x D) | <ul style="list-style-type: none"> • 17.38 x 17.31 x 12.50 in. (44.13 x 43.97 x 31.70 cm) • 10 RU |
| Weight | <p>Minimum weight: 40.5 lb (18.4 kg) Maximum weight: 100 lb (45.4 kg)</p> <p>Chassis and backplane = 36.5 lb (16.5 kg) Fan tray: 4.0 lb (1.8 kg) Power Supply: Weight varies according to the module. Refer to the Catalyst 4500 Series Power Supplies, page A-9 for the module you are using.</p> |
| Airflow | |
| Switch | Right to left |
| Power supply | Front to back |
| Power | |
| PoE supplied | -48 VDC |
| Power to Modules and fans | 12 VDC |
| Power to backplane components | 3.3 VDC |
| Redundancy | |
| Supervisor engine | no |
| Power supply | 1 + 1 |

Catalyst 4507R Switch Specifications

Table A-3 lists the Catalyst 4507R switch specifications.

Table A-3 Catalyst 4507R Switch Specifications

| Item | Specification |
|--|--|
| Environmental | |
| Temperature, ambient operating ambient nonoperating and storage | 32 to 104°F (0 to 40°C) -40 to 167°F (-40 to 75°C) |
| Humidity (RH), ambient (noncondensing): operating nonoperating and storage | 10 to 90% 5 to 95% |
| Altitude: operating nonoperating | -500 to 6500 ft (-150 to 2000 m) -1000 to 30,000 ft (-300 to 9150 m) |
| Switching Components | |
| Backplane | 60 Gbps full duplex 4 Gbps Uplinks with Sup II+, Sup III, and Sup IV 8 Gbps Uplinks with Supervisor Engine V |
| Port density | 240 (max) |
| Inline power | integrated support, 820 W per line card |
| Physical Characteristics | |
| Dimensions (H x W x D) | <ul style="list-style-type: none"> 19.19 x 17.31 x 12.50 in. (48.74 x 43.97 x 31.70 cm) 11 RU |
| Weight | Minimum weight: 44.25 lb (20.1 kg) Maximum weight: 100 lb (45.4 kg) Chassis and backplane: 40.0 lb (18.1 kg) Fan tray: 4.2 lb (1.9 kg) Power Supply: Weight varies according to the module. Refer to the Catalyst 4500 Series Power Supplies , page A-9 for the module you are using. |
| Airflow | |

Table A-3 Catalyst 4507R Switch Specifications (continued)

| Item | Specification |
|-------------------------------|---------------|
| Switch | Right to left |
| Power supply | Front to back |
| Power | |
| PoE supplied | -48 VDC |
| Power to Modules and fans | 12 VDC |
| Power to backplane components | 3.3 VDC |
| Redundancy | |
| Supervisor engine | yes |
| Power supply | 1 + 1 |

**Note**

The blank line card (C4K-SLOT-CVR-E) must be installed when either of the following two situations occur:

- If your Catalyst 4507R or Catalyst 4510R switch chassis has a Supervisor Engine 6-E (WS-X45-SUP6-E) or a Supervisor Engine 6L-E (WS-X45-SUP6L-E) installed in slot 1 and slot 2 is empty, you must install the blank line card (C4K-SLOT-CVR-E) in slot 2 rather than a blank faceplate (C4K-SLOT-CVR) . A blank faceplate covering the slot 2 opening does not direct sufficient airflow to adequately cool the Supervisor Engine 6-E or the Supervisor Engine 6L-E.
- If your Catalyst 4507R or Catalyst 4510R switch chassis has a Supervisor Engine 6-E (WS-X45-SUP6-E) or a Supervisor Engine 6L-E (WS-X45-SUP6L-E) installed in slot 2 and slot 1 is empty, you must install the blank line card (C4K-SLOT-CVR-E) in slot 1 rather than a blank faceplate (C4K-SLOT-CVR) . A blank faceplate covering the slot 1 opening does not direct sufficient airflow to adequately cool the Supervisor Engine 6-E or the Supervisor Engine 6L-E.

Catalyst 4510R Switch Specifications

Table A-4 lists the Catalyst 4510R switch specifications.

Table A-4 Catalyst 4510R Switch Specifications

| Item | Specification |
|--|--|
| Environmental | |
| Temperature, ambient operating ambient nonoperating and storage | 32 to 104°F (0 to 40°C) –40 to 167°F (–40 to 75°C) |
| Humidity (RH), ambient (noncondensing): operating nonoperating and storage | 10 to 90% 5 to 95% |
| Altitude: operating nonoperating | –500 to 6500 ft (–150 to 2000 m) –1000 to 30,000 ft (–300 to 9150 m) |
| Switching Components | |
| Backplane | 88 Gbps full duplex with Supervisor Engine V, 96 Gbps with Supervisor Engine V-10GE 8 Gbps Uplinks with Supervisor Engine V 20 Gbps Uplinks with Supervisor Engine V-10GE |
| Port density | 340 maximum using a Supervisor Engine V and a WS-X4302-GB in the Flex-Slot 386 maximum using a Supervisor Engine V-10GE |
| Inline power | integrated support, 820 W per line card |
| Physical Characteristics | |
| Dimensions (H x W x D) | <ul style="list-style-type: none"> 24.35 x 17.31 x 12.50 in. (61.84 x 43.97 x 31.70 cm) 14 RU |

Table A-4 Catalyst 4510R Switch Specifications (continued)

| Item | Specification |
|-------------------------------|--|
| Weight | Minimum weight: 51.5 lb (23.4 kg) Maximum weight: 108 lb (49.8 kg) Chassis and backplane: 45.5 lb (20.6 kg) Fan tray: 6.0 lb (2.7 kg) Power Supply: Weight varies according to the module. Refer to the Catalyst 4500 Series Power Supplies , page A-9 for the module you are using. |
| Airflow | |
| Switch | Right to left |
| Power supply | Front to back |
| Power | |
| PoE supplied | -48 VDC |
| Power to Modules and Fans | 12 VDC |
| Power to backplane components | 3.3 VDC |
| Redundancy | |
| Supervisor engine | yes |
| Power supply | 1 + 1 |

**Note**

The blank line card (C4K-SLOT-CVR-E) must be installed when either of the following two situations occur:

- If your Catalyst 4507R or Catalyst 4510R switch chassis has a Supervisor Engine 6-E (WS-X45-SUP6-E) or a Supervisor Engine 6L-E (WS-X45-SUP6L-E) installed in slot 1 and slot 2 is empty, you must install the blank line card (C4K-SLOT-CVR-E) in slot 2 rather than a blank faceplate (C4K-SLOT-CVR). A blank faceplate covering the slot 2 opening does not direct sufficient airflow to adequately cool the Supervisor Engine 6-E or the Supervisor Engine 6L-E.
- If your Catalyst 4507R or Catalyst 4510R switch chassis has a Supervisor Engine 6-E (WS-X45-SUP6-E) or a Supervisor Engine 6L-E (WS-X45-SUP6L-E) installed in slot 2 and slot 1 is empty, you must install

the blank line card (C4K-SLOT-CVR-E) in slot 1 rather than a blank faceplate (C4K-SLOT-CVR) . A blank faceplate covering the slot 1 opening does not direct sufficient airflow to adequately cool the Supervisor Engine 6-E or the Supervisor Engine 6L-E.

Catalyst 4500 Series Power Supplies

Tables [A-5](#) through [A-12](#) list the specifications for the Catalyst 4500 series power supplies.

- [1000 W AC-Input Power Supply Specifications, page A-10](#)
- [1300 W AC-Input Power Supply Specifications, page A-10](#)
- [1400 W AC-Input Power Supply Specifications, page A-11](#)
- [1400 W DC-Input Power Supply Specifications, page A-12](#)
- [1400 W DC Triple-Input Power Supply Specifications, page A-15](#)
- [2800 W AC-Input Power Supply Specifications, page A-18](#)
- [4200 W AC-Input Power Supply Specifications, page A-19](#)



Note

All Catalyst 4500 series switch AC-input power supplies require single-phase source AC. The source AC can be out of phase between multiple power supplies or multiple AC-power plugs on the same power supply because all AC power supply inputs are isolated. Each chassis power supply should have its own dedicated branch circuit: 15 A or 20 A for North America and circuits sized to local and national codes for International locations.

For more information about power management and planning, refer to the “Environmental Monitoring and Power Management” chapter in the *Catalyst 4500 Series Switch Cisco IOS Software Configuration Guide* version appropriate for your software.

Table A-5 1000 W AC-Input Power Supply Specifications

| Item | Specification |
|------------------------------|---|
| Minimum software requirement | Cisco IOS Release 12.1(12c)EW Catalyst Operating System software version 7.4 (1) |
| Power over Ethernet | Not supported ¹ |
| AC-input type | Autoranging input with power factor corrector |
| AC-input voltage | 100 to 240 VAC ($\pm 10\%$ for full range) |
| AC-input current | 12 A @ 100 VAC, 5 A @ 240 VAC |
| Maximum KVA rating | 1.32 KVA |
| AC-input frequency | 50/60 Hz (nominal) (± 3 Hz for full range) |
| Power supply output capacity | 1000 W plus 40 W (fan) |
| Power supply output | 12 V @ 83.4 A, 3.3V @ 12.2 A, 1667 W maximum |
| Output holdup time | 20 ms minimum |
| Max heat dissipation | 943 BTUs/hr |
| Weight | 11.5 lb (5.22 kg) |

1. A Catalyst 4503 with a Catalyst 4500 series Supervisor Engine II-Plus TS and a 1000W power supply will be able to provide 158.4 W of Power over Ethernet to ports on the supervisor engine. Switching modules in other slots will not be able to provide PoE.

Table A-6 1300 W AC-Input Power Supply Specifications

| Item | Specification |
|------------------------------|---|
| Minimum software requirement | Cisco IOS Release 12.1(12c)EW Catalyst Operating System software version 7.4 (1) |
| Power over Ethernet | Supported, up to 800 W (211 Cisco phones in combined mode) |
| AC-input type | Autoranging input with power factor corrector |
| AC-input voltage | 100 to 240 VAC ($\pm 10\%$ for full range) |
| AC-input current | 16 A @ 100 VAC, 7 A @ 240 VAC |
| AC-input frequency | 50/60 Hz (nominal) (± 3 Hz for full range) |

Table A-6 1300 W AC-Input Power Supply Specifications (continued)

| Item | Specification |
|---------------------------------|--|
| Maximum KVA rating | 1.76 KVA |
| Power supply output | 1300 W maximum 1000 W+ 40 W redundant mode (Data) 1667 W maximum in combined mode (Data) |
| Power supply output (AC supply) | 800 W maximum each in redundant mode (PoE) 1333 W maximum in combined mode (PoE) 12 V @ 84.7 A, 3.3 V @ 12.5 A (Data), -50 V @ 16.7 A (PoE) |
| Max heat dissipation | 1568 BTUs/hr |
| Output holdup time | 20 ms minimum |
| Weight | 12 lb (5.44 kg) |

Table A-7 1400 W AC-Input Power Supply Specifications

| Item | Specification |
|------------------------------|--|
| Minimum software requirement | Cisco IOS Release 12.2(18)EW Catalyst Operating System software version 8.3 (1)GLX |
| Power over Ethernet | Not supported ¹ |
| AC-input type | Autoranging input with power factor corrector |
| AC-input voltage | 100 to 240 VAC ($\pm 10\%$ for full range) |
| AC-input current | 16 A @ 100 VAC, 7 A @ 240 VAC |
| AC-input frequency | 50/60 Hz (nominal) (± 3 Hz for full range) |
| Maximum KVA rating | 1.76 KVA |

Table A-7 1400 W AC-Input Power Supply Specifications (continued)

| Item | Specification |
|---------------------------------|--|
| Power supply output | 2473 W maximum 1360 W+ 40 W redundant mode (Data) |
| Power supply output (AC supply) | 12 V @ 113.4 A, 3.3 V @ 12.2 A (Data) |
| Max heat dissipation | 1048 BTUs/hr |
| Output holdup time | 20 ms minimum |
| Weight | 13.5 lb (6.12 kg) |

1. A Catalyst 4503 with a Catalyst 4500 series Supervisor Engine II-Plus TS and a 1400W AC power supply provides 158.4 W of PoE to ports on the supervisor engine. Switching modules in other slots will not be able to provide PoE.

**Caution**

Do not mix the 1400 W DC power supply with any other power supply, even for a hot swap or other short-term emergency. Doing so can seriously damage your switch.

The 1400W DC Input power supply may be used with the Catalyst 4500 Series AC Power Shelf. Documentation for the Catalyst 4500 Series AC Power Shelf is at:

http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/configuration/notes/78_15068.html

Table A-8 1400 W DC-Input Power Supply Specifications

| Item | Specification |
|------------------------------|---|
| Minimum software requirement | Cisco IOS Release 12.1(19)EW Catalyst Operating System software version 7.5 (1) |
| Power over Ethernet | Supported, up to 7500 W minus power consumed for data (240 Cisco phones in combined mode) |
| DC-input voltage | Data only: -48 to -60 VDC Inline devices: -48 to -56 VDC |

Table A-8 1400 W DC-Input Power Supply Specifications (continued)

| Item | Specification |
|---------------------------------------|---|
| DC-input current | Data only: 31 A @ –60 VDC Data and inline devices: 180 A maximum @ –48 VDC input Note The input power is configurable in the CLI. The Cisco IOS command is power dc input . The Catalyst Operating System command is set power DC input . Configure the switch software to match the requirements of your switch. To learn how to calculate the DC input current for your system, refer to the “Calculating DC Input Current” section on page 2-18 . |
| Input power | 1866 W (Data only) |
| Current draw At –40.5 V (min voltage) | 46 A |
| Current draw at –72 V (max voltage) | 25.9 A |
| Max heat dissipation at 1866 W | 5760 BTUs |
| | 179 A max @ 48 VDC |
| Maximum KVA rating | 1.87 (data) 9.15 (data and voice) |
| Power supply output (DC supply) | Data: 12 V @120 A, 3.3 V @ 10 A Inline devices: 140 A total maximum (35 A maximum each per 5 channels) @–48 to 60 VDC input 1367 W+ 40 W redundant mode (Data) 2267 W maximum in combined mode (Data) 7500 W maximum each in redundant mode (PoE) 7280 W maximum in combined mode (PoE) |
| DC input terminal block | Accepts FCI p/n YAV25L2TC14FX90 or equivalent, barrel-type lug terminals with 90-degree angle, two-hole tongue, which accommodates 1/0 AWG size copper wire. The connector tongue width is 0.82 in, the stud hole spacing is 5/8 in, and the hole size is 1/4 in. |
| Output holdup time | 4 ms |
| Max heat dissipation | 1591 BTUs/hr (data) 2905 BTUs/hr (data and voice) |
| Weight | 16.5 lb (7.48 kg) |

Table A-8 1400 W DC-Input Power Supply Specifications (continued)

| Item | Specification |
|--|---------------|
| Catalyst 4503-Specific Power Usage (data only) | |
| Maximum draw | 475 W |
| Maximum input | 633 W |
| Current draw at -40.5 V (min voltage) | 15.6 A |
| Current draw at -72 V (max voltage) | 8.8 A |
| Max heat dissipation at 633 W | 2160 BTUs |
| Catalyst 4506-Specific Power Usage (data only) | |
| Maximum draw (data only) | 850 W |
| Maximum input | 1133 W |
| Current draw at -40.5 V (min voltage) | 28 A |
| Current draw at -72 V (max voltage) | 15.8 A |
| Max heat dissipation at 1133 W | 3515 BTUs |
| Catalyst 4507R-Specific Power Usage (data only) | |
| Maximum draw (data only) | 1080 W |
| Max input is $1080\text{ W} / 0.75 =$ | 1440 W |
| Current draw at -40.5 V (min voltage) | 35.6 A |
| Current draw at -72 V (max voltage) | 20 A |
| Max heat dissipation 1440 W | 4910 BTUs |

Table A-9 1400 W DC Triple-Input Power Supply Specifications

| Item | Specification |
|---------------------------------------|--|
| Minimum software requirement | Cisco IOS Release 12.2(25)EW |
| Power over Ethernet | Not supported |
| DC-input voltage | Domestic and international: -48 to -60 VDC |
| DC-input current | 42.5 A maximum @ -48 VDC input Input 1: 12.5 A at -48 to -60 VDC Input 2: 15 A at -48 to -60 VDC Input 3: 15 A at -48 to -60 VDC |
| Input power | 1772 W @ 1400 W output power |
| Current draw At -40.5 V (min voltage) | 42.5 A |
| Current draw at -72 V (max voltage) | 25 A |
| Max heat dissipation at 1400 W | 1269 BTUs |
| Maximum KVA rating | 1.77 at 1400 W load |
| Power supply output (DC supply) | 12 V @ 8 A minimum, 115.3 A maximum 3.3 V @ 1.2 A minimum, 12.5 A maximum 1360 W+ 40 W redundant mode 2450 W maximum in combined mode |
| DC input terminal block | Model: Cooper Bussmann Magnum. Accepts terminals with flat angle, one hole tongue, which accommodates 10 to 12 AWG size copper wire. The connector the barrier spacing is 0.378 in (9.6 mm), and the screw size is 8-32. |
| Output holdup time | 8 ms |
| Max heat dissipation | 1269 BTUs/hr |
| Weight | 16.5 lb (7.48 kg) |

Table A-9 1400 W DC Triple-Input Power Supply Specifications (continued)

| Item | Specification |
|--|---|
| Catalyst 4503-Specific Power Usage (data only) | Two modules minimum required @ -40.5 VDC input One 15A module minimum required @ -44 VDC input |
| Maximum draw | 475 W |
| Maximum input | 609 W total / # of modules = W per module |
| Current draw at -40.5 V (min voltage) | 15 A total / # of modules = A per module |
| Current draw at -72 V (max voltage) | 8.5 A total / # of modules = A per module |
| Max heat dissipation at 609 W | 2078 BTUs |
| Catalyst 4506-Specific Power Usage (data only) | Two modules minimum required @ -44 VDC input Three modules minimum required @ -40.5 VDC input |
| Maximum draw (data only) | 850 W |
| Maximum input | 1076 W total / # of modules = W per module |
| Current draw at -40.5 V (min voltage) | 26.6 A total / # of modules = A per module |
| Current draw at -72 V (max voltage) | 15 A total / # of modules = A per module |
| Max heat dissipation at 1076 W | 3671 BTUs |
| Catalyst 4507R-Specific Power Usage (data only) | Three modules minimum required |
| Maximum draw (data only) | 1080 W |
| Max input is 1080 W | 1367 W total / # of modules = W per module |
| Current draw at -40.5 V (min voltage) | 33.75 A total / # of modules = A per module |
| Current draw at -72 V (max voltage) | 19 A total / # of modules = A per module |
| Max heat dissipation 1367 W | 4665 BTUs |

Table A-10 *Input Modes*

| Input Mode | Input Number | Input Configuration | Maximum Total Output Power |
|-------------------|---------------------|----------------------------|--|
| 1 | 1 | 1 x 12.5 A | 386 W @ -40.5 VDC 412 W @ -44.0 VDC |
| 2 | 2 OR 3 | 1 x 15 A | 466 W @ -40.5 VDC 495 W @ -44.0 VDC |
| 3 | 1, 2 OR 3 | 1 x 12.5 A and 1 x 15 A | 845 W @ -40.5 VDC 908 W @ -44.0 VDC |
| 4 | 2, 3 | 2 x 15 A | 914 W @ -40.5 VDC 990 W @ -44.0 VDC |
| 5 | 1, 2, 3 | 1 x 12.5 A and 2 x 15 A | 1294 W @ -40.5 VDC 1400 W @ -44.0 VDC |

Table A-11 *Allowable Power with Two 1400 W DC Triple-Input Power Supplies in Combined Mode*

| PS1/PS2 | 1 | 2 or 3 | 1 and (2 or 3) | 2 and 3 | 1 and 2 and 3 |
|----------------|----------|---------------|---------------------------|----------------|----------------------|
| 1 | 824 W | 907 W | 1320 W | 1400 W | 1700 W |
| 2 or 3 | 907 W | 990 W | 1400 W | 1450 W | 1750 W |
| 1 and (2 or 3) | 1320 W | 1400 W | 1700 W | 1750 W | 1900 W |
| 2 and 3 | 1400 W | 1450 W | 1750 W | 1820 W | 2130 W |
| 1 and 2 and 3 | 1700 W | 1750 W | 1900 W | 2130 W | 2450 W |

Table A-12 2800 W AC-Input Power Supply Specifications

| Item | Specification |
|------------------------------|---|
| Minimum software requirement | Cisco IOS Release 12.1(13)EW Catalyst Operating System software version 7.5 (1) |
| Power over Ethernet | Supported, up to 1400 W (240 Cisco phones in combined mode) |
| AC-input type | Autoranging input with power factor corrector |
| AC-input voltage | 200 to 240 VAC ($\pm 10\%$ for full range) |
| AC-input current | 16 A maximum at 200 VAC |
| AC-input frequency | 50/60 Hz (nominal) ($\pm 3\%$ for full range) |
| Maximum KVA rating | 3.52 KVA |
| Power supply output | 2800 W maximum 12 V @ 113.3 A, 3.3 V @ 12.1 A (Data) -50 V @ 28 A (PoE) 1360 W+ 40 W redundant mode (Data) 2473 W maximum in combined mode (Data) |
| Max heat dissipation | 1400 W maximum each in redundant mode (PoE) 2333 W maximum in combined mode (PoE) 2387 BTUs/hr. |
| Output holdup time | 20 ms minimum |
| Weight | 13.5 lb (6.12 kg) |

Table A-13 4200 W AC-Input Power Supply Specifications

| Item | Specification |
|------------------------------|---|
| Minimum software requirement | Cisco IOS Release 12.2(25)EWA |
| Power over Ethernet | Supported, up to 4200 W |
| AC-input type | Autoranging input with power factor corrector |
| AC-input voltage | 100 to 240 VAC ($\pm 10\%$ for full range) |
| AC-input current | 12 A maximum at 200 VAC |
| AC-input frequency | 50/60 Hz (nominal) ($\pm 3\%$ for full range) |
| Maximum KVA rating | 5.25 KVA |
| Power supply output | 4200 W maximum @ 230 VAC 12 V @ 115.3 A, 3.3 V @ 12.5 A (Data) -50 V @ 77.1 A (PoE) with two inputs 2100 W maximum @ 230 VAC 12 V @ 115.3 A, 3.3 V @ 12.5 A (Data) -50 V @ 38.5 A (PoE) with one input 2100 W maximum @ 120 VAC 12 V @ 115.3 A, 3.3 V @ 12.5 A (Data) -50 V @ 38.0 A (PoE) with two inputs 1050 W maximum @ 120 VAC 12 V @ 55.9 A, 3.3 V @ 12.5 A (Data) -50 V @ 14.6 A (PoE) with one input |
| Max heat dissipation | 3583 BTUs/hr. |
| Output holdup time | 20 ms minimum |
| Weight | 21 lb (9.53 kg) |

**Note**

The 4200 W AC power supply should not be used in mixed-voltage configurations. All the inputs in a chassis must be at the same voltage (110 VAC or 220 VAC).

Table A-14 shows the wattage output possible with the 4200W power supply in redundant mode. In redundant mode, both power supplies must have identical inputs and all inputs must be at the same voltage. If the input voltages are mismatched, choose the value matching the weaker of the two power supplies.

Table A-14 Redundant Mode Output

| | 12V | 3.3V | -50V | Total |
|----------------|------------|-------------|-------------|--------------|
| 110 | 660 | 40 | 700 | 1050 |
| 110+110 or 220 | 1360 | 40 | 1850 | 2100 |
| 220+220 | 1360 | 40 | 3700 | 4200 |

Table A-15 shows the maximum output wattage with the 4200 W power supply in combined mode.

Table A-15 Combined Mode Output

| | W @ 12 V | W @3.3 V | W @ -50 V | Maximum (W) |
|-------------------------|-----------------|-----------------|------------------|--------------------|
| Both sides at 110 | 1200 | 40 | 1320 | 1870 |
| 110+110, other side 110 | 1800 | 40 | 2000 | 2730 |
| Both sides at 110+110 | 2200 | 40 | 3100 | 3800 |
| Both sides at 220 | 2200 | 40 | 3100 | 3800 |
| 220+220, other side 220 | 2200 | 40 | 4700 | 5500 |
| Both sides at 220+220 | 2200 | 40 | 6200 | 7600 |