

**DATA SHEET**

## 6000 WATT AC POWER SUPPLY FOR THE CISCO CATALYST 6500 SERIES CHASSIS

### PRODUCT OVERVIEW

The 6000-watt (W) power supply for the Cisco® Catalyst® 6500 Series chassis (Figure 1) is a dual AC input power supply. When both inputs are at high line (220 VAC nominal voltage) then the output is 6000W. When both inputs are active but at least one is operating at low line (110 VAC nominal voltage), or a single input is active and running from a high line (220 VAC nominal voltage) source, the unit is capable of providing 2900W output power. (The power supply will not power up with 110V single input.)

All Cisco Catalyst 6500 Series chassis hold up to two load-sharing, fault-tolerant, hot-swappable power supplies. Only one supply is required to operate a fully loaded chassis. If a second supply is installed, it operates in a load-sharing capacity. The power supplies are hot-swappable—a failed power supply can be removed without powering off the system.

**Figure 1.** Cisco Catalyst 6500 Series Chassis



### FEATURES AND BENEFITS

The 6000W power supply offers the following features:

- Universal input (100–240 VAC, 50–60 Hz).
- Compatible with full output in Cisco Catalyst 6506-E, Catalyst 6509-E, and Catalyst 6513 switches. Works in Catalyst 6506 and Catalyst 6509 with a maximum output of 4000W.
- Redundant and hot swappable.

## PRODUCT SPECIFICATIONS

Table 1–3 list product specifications for the 6000W power supply.

**Table 1.** Power Specifications

| Description                         | Specification   |
|-------------------------------------|---|
| Input-voltage range and frequency   | 100–240 VAC, 47–63 Hz   |
| Input current (each input)          | 16A   |
| Input-frequency range, output power | 6000W if both inputs are 220 VAC<br>2900W if both inputs are active but at least 1 is at 110 VAC or a single input is active and at 220 VAC |
| Output holdup time                  | 20 ms minimum   |
| Power-supply input receptacles      | IEC 320-C19   |
| Power cord rating                   | 16A   |

**Table 2.** Product Specifications

| Product Specifications         |   |
|--------------------------------|---|
| <b>Chassis Compatibility</b>   | Cisco Catalyst 6506, Catalyst 6506-E, Catalyst 6509, Catalyst 6509-E, Catalyst 6509-NEB, Catalyst 6509-NEB-A, Catalyst 6513, Cisco OSR-7609, 7609, and 7613 chassis   |
| <b>Fan Tray Required</b>       | High-speed fan  |
| <b>Software Compatibility</b>  | Cisco IOS® Software Release: <ul style="list-style-type: none"><li>• 12.2(18)SXD and later</li><li>• 12.1E: not supported</li></ul> Cisco Catalyst OS: <ul style="list-style-type: none"><li>• 8.4(1)</li></ul> |
| <b>Physical Specifications</b> | (H x W x D): 7 x 8 x 13.5 (in.)<br>Weight: 29 lb (13 kg)  |
| <b>BTU</b>                     | ~ 24,000 BTUs per hour (at 6 kW)<br>~ 11,600 BTUs per hour (at 2.9 kW)  |

| <b>Product Specifications</b>   |   |
|---------------------------------|---|
| <b>Environmental Conditions</b> | <p>Operating temperature: 32 to 104°F (0 to 40°C)</p> <p>Storage temperature: –40 to 158 °F (–40C to 70°C)</p> <p>Relative humidity operating, non condensing: 10% to 95%</p> <p>Relative humidity nonoperating, noncondensing: 10% to 95%</p> <p>MTBF: calculated 150,000 hr (MIL-217 and Bellcore TR-NWT-000332), demonstrated 300,000 hr</p> |
| <b>EMI and EMC Compliance</b>   | <p>FCC Part 15 (CFR 47) Class A</p> <p>ICES-003 Class A</p> <p>EN 55022 Class A</p> <p>CISPR 22 Class A</p> <p>AS/NZS 3548 Class A</p> <p>VCCI Class A</p> <p>EN 55024</p> <p>EN300 386</p> <p>EN 50082-1</p> <p>EN 61000-3-2</p> <p>EN 61000-3-3</p> <p>EN 61000-6-1</p>   |
| <b>Safety Compliance</b>        | <p>UL 60950</p> <p>CAN/CSA-C22.2 NO. 60950</p> <p>EN 60950</p> <p>IEC 60950</p>   |
| <b>LED Indicators</b>           | <p>2 green “INPUT OK,” illuminate when input voltage is 85 VAC or greater</p> <p>1 green “FAN OK,” illuminates when the power supply fan is operating</p> <p>1 red “OUTPUT FAIL,” normally is off but illuminates when power supply outputs are out of regulation limits</p>  |

**Table 3.** 6000W AC Power Supply Cable Specifications

| Locale   | Part Number      | Cord Length   | Plug Type<br>Wall Appliance | Wall Plug<br>Rating |
|--|------------------|---------------|-----------------------------|---------------------|
| North America (nonlocking) 200–240 VAC operation | CAB-AC-2500W-US1 | 14 ft (4.3 m) | NEMA 6-20                   | 250 VAC, 16A        |
| North America (locking) 200–240 VAC operation    | CAB-AC-C6K-TWLK  | 14 ft (4.3 m) | NEMA L6-20                  | 250 VAC, 16A        |
| North America 100-120 VAC operation*             | CAB-7513AC       | 14 ft (4.3 m) | NEMA 5-20                   | 125 VAC, 20A        |
| Continental Europe                               | CAB-AC-2500W-EU  | 14 ft (4.3 m) | CEE 7/7                     | 250 VAC, 16A        |
| Japan  | CAB-7513AC       | 14 ft (4.3 m) | NEMA 5-20**                 | 125 VAC, 20A        |
|  | CAB-AC-2500W-US  |               | NEMA 6-203                  | 250 VAC, 16A        |
|  | CAB-AC-C6K-TWLK  |               | NEMA L6-20***               | 250 VAC, 16A        |
| International                                    | CAB-AC-2500W-INT | 14 ft (4.3 m) | IEC 309                     | 250 VAC, 16A        |

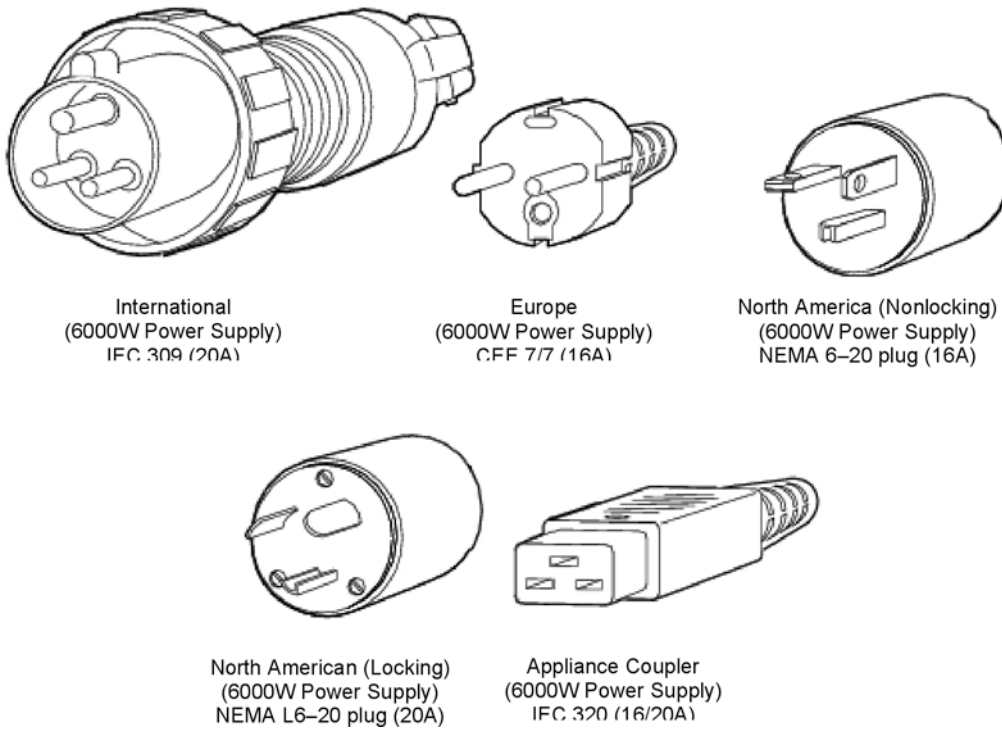
\* The 6000W power supply operating on 110 VAC delivers 2900W.

\*\* Ask your local electrical contractor to prepare the NEMA 5-20 power plug.

\*\*\* Ask your local electrical contractor to prepare the NEMA 6-20 or the NEMA L6-20 power plug.

**POWER CONNECTION GUIDELINES FOR AC-POWERED SYSTEMS**

**Figure 2.** 6000W Power Supply AC Power Cord Plugs and Appliance Coupler



International  
(6000W Power Supply)  
IEC 309 (20A)

Europe  
(6000W Power Supply)  
CEE 7/7 (16A)

North America (Nonlocking)  
(6000W Power Supply)  
NEMA 6-20 plug (16A)

North American (Locking)  
(6000W Power Supply)  
NEMA L6-20 plug (20A)

Appliance Coupler  
(6000W Power Supply)  
IEC 320 (16/20A)

## SUMMARY

The Cisco Catalyst 6506-E, Catalyst 6509-E, and Catalyst 6513 chassis will have a full 6000W output with the power supply. The Catalyst 6506 and 6509 chassis will support a maximum of 4000W. The 6000W power supply will operate in both 110V and 220V mode.

## ORDERING INFORMATION

To place an order, visit the [Cisco Ordering Home Page](#). Table 4 lists the ordering information for the 6000W power supply.

**Table 4.** Ordering Information

| Part Number      | Description  |
|------------------|--|
| WS-CAC-6000W     | Catalyst 6500 Series 6000W AC Power Supply                             |
| CAB-AC-2500W-US1 | Power Cord, 250 VAC, 16A, straight blade NEMA 6–20 plug, United States |
| CAB-AC-2500W-EU  | Power Cord, 250 VAC, 16A, Europe                                       |
| CAB-AC-2500W-INT | Power Cord, 250 VAC, 16A, international                                |
| CAB-AC-C6K-TWLK  | Power Cord, 250 VAC, 16A, twist lock NEMA L6–20 plug, United States    |
| CAB-7513AC       | AC Power Cord, North America (110V)                                    |

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## FOR MORE INFORMATION

For more information about the Cisco Catalyst 6500 Series Switch, visit <http://www.cisco.com/en/US/products/hw/switches/ps708/index.html> or contact your local account representative



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