

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<sup>®</sup> Catalyst<sup>®</sup> 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 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	
Chassis Compatibility	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
Fan Tray Required	High-speed fan
Software Compatibility	Cisco IOS® Software Release: • 12.2(18)SXD and later • 12.1E: not supported Cisco Catalyst OS: • 8.4(1)
Physical Specifications	(H x W x D): 7 x 8 x 13.5 (in.) Weight: 29 lb (13 kg)
BTU	~ 24,000 BTUs per hour (at 6 kW) ~ 11,600 BTUs per hour (at 2.9 kW)

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

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

Locale	Part Number	Cord Length	Plug Type Wall Appliance	Wall Plug 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

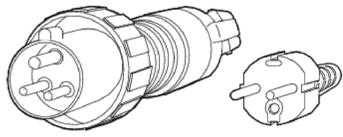
\* The 6000W power supply operating on 110 VAC delivers 2900W.

\*\* 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.

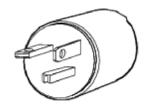
#### POWER CONNECTION GUIDELINES FOR AC-POWERED SYSTEMS

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



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

Europe (6000W Power Supply) CFF 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) IFC 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.

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)

#### Table 4.Ordering Information

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### FOR MORE INFORMATION

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



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