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1300 W AC-Input and DC-Input Power Supplies

The 1300 W AC-input power supply (WS-CAC-1300W) and 1300 W DC-input power supply (WS-CDC-1300W) are supported in the following Catalyst 6500 series switches:

- Catalyst 6506
- Catalyst 6509
- Catalyst 6509-NEB

The 1300 W power supply (see Figure A-5 for the 1300 W AC-input power supply and Figure A-6 for the 1300 W DC-input power supply) shares the same form factor as the 1000 W, 2500 W, 3000 W, 4000 W, and 6000 W AC-input power supplies.

Figure A-5 1300 W AC-input Power Supply

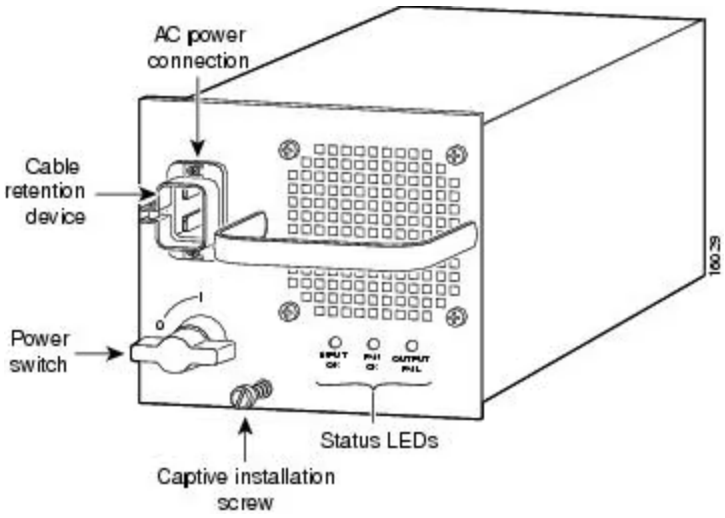
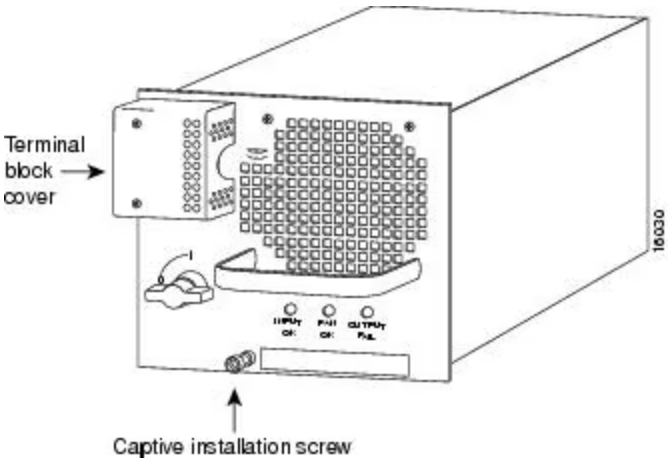


Figure A-6 1300 W DC-Input Power Supply



1300 W Power Supply Specifications

Table A-11 lists the specifications for the 1300 W AC-input power supply.

Table A-10 1300 W AC-Input Power Supply Specifications

Specification	Description
AC-input type	Autoranging input with power factor correction (PFC). **Note** Power factor correction is a standard feature on all Catalyst 6500 series AC-input power supplies. PFC reduces the reactive component in the source AC current allowing higher power factors (typically 99 percent or better) and lower harmonic current components.
AC-input voltage	• Low-line (120 VAC nominal)—90 VAC (min) to 132 VAC (max) • High-line (230 VAC nominal)—170 VAC (min) to 264 VAC (max)
AC-input current	• 16 A @ 120 VAC • 8 A @ 230 VAC
AC-input frequency	50/60 Hz (nominal) (±3 Hz for full range)
Branch circuit requirement	Each chassis power supply should have its own dedicated, fused-branch circuit: • For North America—15 A or 20 A • For International—Circuits sized to local and national codes • All Catalyst 6500 series AC-input power supplies require single-phase source AC.

	• All AC power supply inputs are fully isolated. – Source AC can be out of phase between multiple power supplies in the same chassis, which means that PS1 can be operating from phase A and PS2 can be operating from phase B. – For high-line operation, the power supply operates with the hot conductor wired to a source AC phase and the neutral conductor wired either to ground or to another source AC phase as long as the net input voltage is in the range of 170 to 264 VAC. – Source AC can be out of phase between AC inputs on power supplies that are equipped with multiple AC inputs, which means that power cord 1 can be plugged into phase A and power cord 2 can be plugged into phase B.
Power supply output capacity	• 1300 W maximum (AC-input) • 1360 W maximum (DC-input)
Power supply output	• 15 A @ +3.3 VDC • 5 A @ +5 VDC • 6 A @ +12 VDC • 27.46 A @ +42 VDC
Output holdup time	20 ms minimum
kVA rating[7]	1.625 kVA

Heat dissipation	5478 BTU/hour (approx.)
Weight	18.4 lb (8.3 kg)

[7.] The kVA rating listed for the power supply should be used as the sizing criteria for both UPS outputs as well as standard circuits and transformers to power a switch.

Table A-11 lists the specifications for the 1300 W DC-input power supply.

Table A-11 1300 W DC-Input Power Supply Specifications

Specification	Description
DC-input voltage	–48 VDC to –60 VDC continuous
DC-input current	• 39 A @ –48 VDC • 31 A @ –60 VDC
Power supply output capacity	1360 W maximum (DC-input)
Power supply output	• 15 A @ +3.3 VDC • 5 A @ +5 VDC • 6 A @ +12 VDC • 28.9 A @ +42 VDC
DC input terminal block	Accepts 3 AWG to 10 AWG copper conductors. Actual size of the wire needed is determined by the installer or local electrician. Terminal block material is rated at 120°C.
Output holdup time	8 ms

Heat dissipation	6447 BTU/hour (approx.)
Weight	21.0 lb (9.5 kg)

Table A-12 lists the 1300 W power supply LEDS and their meanings.

Table A-12 1300 W AC-Input and DC-Input Power Supply LEDs

LED	Meaning
INPUT OK	AC-input power supplies: • Green—Source AC voltage is OK. (Input voltage is 85 VAC or greater.) • Off—Source AC voltage falls below 70 VAC, is not present, or the power supply turned off. DC-input power supplies: • Green—Source DC voltage is OK. (Input voltage is –40.5 VDC or greater.) • Off—Source DC voltage falls below –33 VDC, is not present, or the power supply is turned off.
FAN OK	• Green—Power supply fan is operating properly. • Off—Power supply fan failure is detected.
OUTPUT FAIL	• Red—Problem with one or more of the DC-output voltages of the power supply is detected. • Off—DC-output voltages within acceptable margins. **Note** For proper operation of the OUTPUT FAIL LED, systems with single power supplies must be configured with a minimum of one fan tray and one supervisor engine.

	Systems with dual power supplies must have a minimum configuration of one fan tray, one supervisor engine, and one additional module. Failure to meet these minimum configuration requirements can cause a false power supply output fail signal.

1300 W Power Supply AC Power Cords

Table A-13 lists the specifications for the AC power cords that are available for the 1300 W AC-input power supply. The table includes references to power cord illustrations.

Note All 1300 W power supply power cords are 14 feet (4.3 meters) in length.

Note All 1300 W power supply power cords have an IEC60320/C19 appliance connector at one end.

Table A-13 1300 W Power Supply AC Power Cords

Locale	Power Cord Part Number	AC Source Plug Type	Cordset Rating	Power Cord Reference Illustration
Argentina	CAB-7513ACR=	IRAM 2073	10 A, 250 VAC	Figure A-31
Australia, New Zealand	CAB-7513ACA=	SAA AS 3112	15 A, 250 VAC	Figure A-32

Continental Europe	CAB-7513ACE=	CEE 7/7	16 A, 250 VAC	Figure A-33
Israel	CAB-AC-2500W-ISRL=	SI16S3	16 A, 250 VAC	Figure A-34
Italy	CAB-7513ACI=	CEI 23-16/7	16 A, 250 VAC	Figure A-35
Japan, North America	CAB-7513AC=	NEMA 5-20[8]	20 A, 125 VAC	Figure A-36
People's Republic of China	CAB-AC16A-CH=	GB16C	16 A, 250 VAC	Figure A-37
South Africa	CAB-7513ACSA=	IEC 884-1	16 A, 250 VAC	Figure A-38
Switzerland	CAB-ACS-10=	SEV 1011	10 A, 250 VAC	Figure A-39
United Kingdom	CAB-7513ACU=	BS 1363[9]	13 A, 250 VAC	Figure A-40
Power Distribution Unit (PDU)[10]	CAB-C19-CBN=	IEC 60320 C19	16 A, 250 VAC	Figure A-47

		IEC 60320 C20		

[8.] For Japan, ask your local electrical contractor to prepare the NEMA 5-20 power plug.

[9.] Plug contains a 13 A fuse.

[10.] The PDU power cable is designed for users who power their switch from a PDU. The end of the cable that plugs into the chassis power supply has a C19 connector; the other end of the cable that connects to the PDU has a C20 connector.

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