System Specifications

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Environmental Specifications

Environment		Specification
Temperature	Ambient operating temperature	32 to 104°F (0 to 40°C)
	Ambient nonoperating	–40 to 158°F (–40 to 70°C)
Relative humidity	Ambient (noncondensing)	5 to 95%
Altitude	Operating	0 to 13,123 feet (0 to 4,000 meters)

Switch Dimensions

Switch	Width	Depth	Height
Cisco Nexus 93180LC-EX	17.3 inches (43.9 cm)	22.5 inches (57.1 cm)	1.72 inches (4.4 cm) (1 RU)

Switch and Module Weights and Quantities

Component	Weight per Unit	Quantity
Cisco Nexus 93180LC-EX Chassis (N9K-C93180LC-EX)	17.2 lb (7.8 kg)	1
Fan Module	—	4
– Port-side intake (burgundy) (NXA-FAN-30CFM-B)	0.92 lb (0.4 kg)	
– Port-side exhaust (blue) (NXA-FAN-30CFM-F)	0.92 lb (0.4 kg)	
Power Supplies	—	2 (1 for operations and 1 for redundancy)
– 500-W AC port-side intake (burgundy) (NXA-PAC-500W-PI)	2.42 lb (1.1 kg)	
– 500-W AC port-side exhaust (blue) (NXA-PAC-500W-PE)	2.42 lb (1.1 kg)	
– 1200-W HVAC/HVDC dual-direction (white) (N9K-PUV-1200W)	2.42 lb (1.1 kg)	
– 930-W DC port-side intake (burgundy) (NXA-PDC-930W-PI)	2.42 lb (1.1 kg)	
– 930-W DC port-side exhaust (blue) (NXA-PDC-930W-PE)	2.42 lb (1.1 kg)	

Transceiver and Cable Specifications

To determine which transceivers, adapters, and cables are supported by this switch, see http://www.cisco.com/c/en/us/support/interfaces-modules/transceiver-modules/products-device-support-tables-list.html.

To see the transceiver specifications and installation information, see http://www.cisco.com/c/en/us/support/interfaces-modules/transceiver-modules/products-device-support-tables-list.html.

Switch Power Input Requirements

The following table lists the typical amount of power consumed by the switch, and it lists the maximum amount of power that you must provision from the power source as input to the power supply and switch for peak conditions.

Note Some power supplies might have UL listed capabilities that are greater than the maximum power requirements for a switch. To determine the power consumption characteristics for the switch, use the typical and maximum requirements listed in the following table.

Switch	Typical Power Consumption (AC or DC)	Maximum Power Consumption (AC or DC)
Cisco Nexus 93180LC-EX	220 W	500 W

Power Specifications

Power specifications include the specifications for each type of power supply module.

500-W AC Power Supply Specifications

These specifications apply to the following power supplies:

- NXA-PAC-500W-PE
- NXA-PAC-500W-PI

Characteristic	Specification
AC input voltage	Nominal range: 100 and 240 VAC (Range: 90-132 VAC, 180-264 VAC)
AC input frequency	Nominal range: 50 to 60 Hz (Range: 47-63 Hz)
Maximum AC input current	7.6 A at 100 VAC 3.65 A at 208 VAC
Maximum input volt-amperes	760 A at 100 VAC
Maximum output power per power supply	500 W
Maximum inrush current	33 A (sub-cycle duration)
Maximum hold-up time	12 ms at 500 W
Power supply output voltage	12 VDC
Power supply standby voltage	12 VDC
Efficiency rating	Climate Savers Platinum Efficiency (80Plus Platinum certified)
Form factor	RSP1

1200-W HVAC/HVDC Power Supply Specifications

These specifications apply to the 1200-W HVAC/HVDC (N9K-PUV-1200W) power supplies.

Characteristic	Specification
Input voltage • AC (for 1230 W output) • DC (for 1230 W output)	Nominal (Range) • 200 to 277 VAC • –240 to –380 VDC
AC input frequency	Nominal: 50 to 60 Hz (Range: 47-63 Hz)
Maximum inrush current	35 A (cold turn on); 70 A (hot turn on)
Maximum output Watts • For 200 to 277 VAC • For 192 to 400 VDC	Per power supply • 1230 W • 1230 W
Power supply output voltage • For 200 to 277 VAC • For 192 to 400 VDC	Per power supply • 12 VAC at 100 A • 12 VDC at 100 A
Power supply standby voltage	12 V at 2.5 A
Efficiency rating	Climate Savers Platinum Efficiency (80Plus Platinum certified)
Form factor	RSP1

930-W DC Power Supply Specifications

These specifications apply to the following power supplies:

- NXA-PDC-930W-PE
- NXA-PDC-930W-PI

Characteristic	Specification
DC input voltage range	Nominal range: -48 to -60 VDC nominal (Range: -40 to -60 VDC
Maximum DC input current	23 A at -48 VDC
Maximum input W	1104 W
Maximum output power per power supply	930 W
Maximum inrush current	35 A (sub-cycle duration)

Characteristic	Specification
Maximum hold-up time	8 ms at 930 W
Power supply output voltage	12 VDC
Power supply standby voltage	12 VDC
Efficiency rating	Greater than 92% at 50% load
Form factor	RSP1

Power Cord Specifications

The following tables specify the power cables that you should order and use with AC, DC, and HVAC/HVDC power supplies.

Table 1: Power Cable Specifications for AC Power Supplies

Locale	Power Cord Part Number	Cord Set Description
	CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 6.6 feet (2.0 m)
	CAB-C13-C14-AC	Power cord, C13 to C14 (recessed receptacle), 10 A, 9.8 feet (3 m)
	CAB-C13-CBN	Cabinet jumper power cord, 250 VAC, 10 A, C14-C13 connectors, 2.3 feet (0.7 m)
Argentina	CAB-250V-10A-AR	250 V, 10 A, 8.2 feet (2.5 m)
Australia	CAB-9K10A-AU	250 VAC, 10 A, 3112 plug, 8.2 feet (2.5 m)
Brazil	CAB-250V-10A-BR	250 V, 10 A, 6.9 feet (2.1 m)
European Union	CAB-9K10A-EU	250 VAC, 10 A, CEE 7/7 plug, 8.2 feet (2.5 m)
India	CAB-IND-10A	10 A, 8.2 feet (2.5 m)
Israel	CAB-250V-10A-IS	250 V, 10 A, 8.2 feet (2.5 m)
Italy	CAB-9K10A-IT	250 VAC, 10 A, CEI 23-16/VII plug, 8.2 feet (2.5 m)
North America	CAB-9K12A-NA	125 VAC, 13 A, NEMA 5-15 plug, 8.2 feet (2.5 m)
North America	CAB-AC-L620-C13	NEMA L6-20-C13, 6.6 feet (2.0 m)
North America	CAB-N5K6A-NA	200/240V, 6A, 8.2 feet (2.5 m)

Locale	Power Cord Part Number	Cord Set Description
Peoples Republic of China	CAB-250V-10A-CN	250 V, 10 A, 8.2 feet (2.5 m)
South Africa	CAB-250V-10A-ID	250 V, 10 A, 8.2 feet (2.5 m)
Switzerland	CAB-9K10A-SW	250 VAC, 10 A, MP232 plug, 8.2 feet (2.5 m)
United Kingdom	CAB-9K10A-UK	250 VAC, 10 A, BS1363 plug (13 A fuse), 8.2 (2.5 m)

Table 2: Power Cable Specifications for HVAC/HVDC Power Supplies

Power Type	Power Cord Part Number	Cord Set Description
HVAC	CAB-HVAC-SD-0.6M	2-foot (0.6 m) cable with Saf-D-Grid and SD connectors
HVAC	CAB-HVAC-C14-2M	6.6-foot (2.0 m) cable with Saf-D-Grid and C14 connector (use for up to 240 V)
HVAC	CAB-HVAC-RT-0.6M	2-foot (0.6 m) cable with Saf-D-Grid and RT connector
HVDC	CAB-HVDC-3T-2M	6.6-foot (2.0 m) cable with Saf-D-Grid and three terminal connectors

Table 3: Power Cable Specifications for DC Power Supplies

Power Supply	Power Cord	Cord Set Description
NXA-PDC-930W-PI (port-side intake airflow)	(customer supplied)	8 AWG insulated cable (10 AWG minimum) for each power supply
NXA-PDC-930W-PI (port-side intake airflow)	CAB-48DC-40A-8AWG	8-AWG cable with 3-pin keyed power supply connector and three wires (power source connection)
NXA-PDC-930W-PE (port-side exhaust airflow)	CAB-48DC-40A-8AWG	8-AWG cable with 3-pin keyed power supply connector and three wires (power source connection)