# System Specifications



## 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 | Nonoperating | 5 to 95% |
| | Operating | 5 to 90% |
| Altitude | Operating | 0 to 13,123 feet (0 to 4,000 meters) |

## Switch Dimensions

| Switch | Width | Depth | Height |
|---|---|---|---|
| Cisco Nexus 93120TX | 17.5 inches (44.5 cm) | 22.5 inches (57.1 cm) | 3.5 inches (8.9 cm) (2 RU) |

# Switch and Module Weights and Quantities

| Component | Weight per U |
|---|---|
| Cisco Nexus 93120TX Chassis (N9K-C93120TX) | 26.0 lb (11.8 |
| Fan Module | — |
| – Port-side exhaust (blue) (N9K-C9300-FAN3-B) | 1.42 lb (0.64 |
| – Port-side intake (burgundy) (N9K-C9300-FAN3) | 1.42 lb (0.64 |
| Power Supply Module | — |
| – 1200-W AC port-side exhaust (blue) (N9K-PAC-1200W-B) | 2.64 lb (1.2 k |
| – 1200-W AC port-side intake (burgundy) (N9K-PAC-1200W) | 2.64 lb (1.2 k |
| – 1200-W HVAC/HVDC dual-direction (white) (N9K-PUV-1200W) | 2.42 lb (1.1 k |
| – 930-W DC port-side exhaust (gray) (UCS-PSU-6332-DC) | 2.42 lb (1.1 k |
| – 930-W DC port-side intake (green) (UCSC-PSU-930WDC) | 2.42 lb (1.1 k |
| – 930-W DC port-side exhaust (blue) (NXA-PDC-930W-PE) | 2.42 lb (1.1 k |
| – 930-W DC port-side intake (burgundy) (NXA-PDC-930W-PI) | 2.42 lb (1.1 k |

# Transceiver and Cable Specifications

To determine which transceivers, adapters, and cables are supported by this switch, see https://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 https://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 that the switch consumes. It also lists the maximum amount of power that you must provision for the switch and power supply for peak conditions.

**Note** Some power supplies have 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 that are listed in the following table.

| Switch | Typical Power Consumption (AC or DC) | Maximum Power Consumption (AC or DC) | Heat Diss Requiren |
|---|---|---|---|
| Cisco Nexus 93120TX | 542 W | 948 W | 3234.71 per hour |

# Power Specifications

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

## 1200-W AC Power Supply Specifications

These specifications apply to the following 1200-W AC power supplies:

- N9K-PAC-1200W
- N9K-PAC-1200W-B

| Characteristic | Specification |
|---|---|
| AC input voltage | Nominal range: 100-120 VAC, 200-240 VAC |
| AC input frequency | Nominal range: 50 to 60 Hz (Range: 47-63 Hz) |
| Maximum AC input current | 10 A at 100-120 VAC<br>8 A at 200-240 VAC |
| Maximum output power per power supply | 800 W at 100-120 VAC<br>1200 W at 200-240 VAC |
| Maximum hold-up time | 12 ms at 650 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<br>• AC (for 1230 W output)<br>• DC (for 1230 W output) | Nominal (Range)<br>• 200 to 277 VAC |
| AC input frequency | Nominal: 50 to 60 Hz (Range: 47-63 Hz) |
| Maximum AC input current | 100 VAC, 10A |
| Maximum inrush current | 35 A (cold turn on); 70 A (hot turn on) |
| Maximum output Watts<br>• For 200 to 277 VAC<br>• For 192 to 400 VDC | Per power supply<br>• 1230 W<br>• 1230 W |
| Power supply output voltage<br>• For 200 to 277 VAC<br>• For 192 to 400 VDC | Per power supply<br>• 12 VDC at 100 A<br>• 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 (Port-Side Intake) Specifications

These specifications apply to the 930-W DC (UCSC-PSU-930WDC) port-side intake power supplies.

| 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) |
| Maximum hold-up time | 8 ms at 930 W |
| Power supply output voltage | 12 VDC |
| Power supply standby voltage | 12 VDC |

| Characteristic | Specification |
|---|---|
| Efficiency rating | Greater than 92% at 50% load |
| Form factor | RSP1 |

## 930-W DC Power Supply (Port-Side Exhaust) Specifications

These specifications apply to the 930-W DC (UCS-PSU-6332-DC) power supplies.

| Characteristic | Specification |
|---|---|
| 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 at +35° Celcius |
| Maximum hold-up time | 8 ms at 50 % load |
| Power supply output voltage | 12 VDC |
| Power supply standby voltage | 12 VDC |
| Efficiency rating | Climate Savers Platinum Efficiency (80Plus Platinum certified) |
| Form factor | 1U |

# Power Cable Specifications

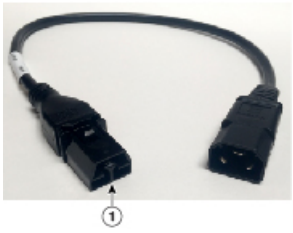
The following sections specify the power cables that you can order and use with this switch.

## 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-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) |

| Locale | Power Cord Part Number | Cord Set Description |
|---|---|---|
| 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) |
| India | CAB-C13-C14-2M-IN | Power Cord Jumper, C13-C14 Connectors, 6.6 feet (2.0 m) |
| India | CAB-C13-C14-3M-IN | Power Cord Jumper, C13-C14 Connectors, 9.8 feet (3.0 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) |
| Japan | CAB-C13-C14-2M-JP | Power Cord Jumper, C13-C14 Connectors, 6.6 feet (2.0 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) |
| 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) |
| All except Argentina, Brazil, and Japan | NO-POWER-CORD | No power cord included with switch |

# HVAC/HVDC Power Cables Supported by ACI-Mode and NX-OS Mode Switches

| Part Number | Cord Set Description | Photo |
|---|---|---|
| CAB-HVAC-SD-0.6M | HVAC<br>2-foot (0.6 m) cable with Saf-D-Grid and SD connectors<br>277V AC |  |

| Part Number | Cord Set Description | Photo |
|---|---|---|
| CAB-HVAC-C14-2M | HVAC<br>6.6-foot (2.0 m) cable with Saf-D-Grid and C14 (use for up to 240 V) connector<br>250V AC |  |
| CAB-HVAC-RT-0.6M | HVAC<br>2-foot (0.6 m) cable with Saf-D-Grid and RT connector<br>277V AC |  |
| CAB-HVDC-3T-2M | HVDC<br>6.6-foot (2.0 m) cable with Saf-D-Grid and three terminal connectors<br>300V AC / 400V DC (+200/-200 V DC) |  |
| NO-POWER-CORD | All except Argentina, Brazil, and Japan<br>No power cord included with switch | Not applicable |

***Table 1: HVAC/HVDC Power Cables Callout Table***

| | |
|---|---|
| 1 | Connect this end to the power supply unit. |

# Regulatory Standards Compliance Specifications

The following table lists the regulatory standards compliance for the switch.

***Table 2: Regulatory Standards Compliance: Safety and EMC***

| Specification | Description |
|---|---|
| Regulatory compliance | Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC. |

| Specification | Description |
|---|---|
| Safety | • CAN/CSA-C22.2 No. 60950-1 Second Edition<br>• EN 60950-1 Second Edition<br>• IEC 60950-1 Second Edition<br>• IEC 623681<br>• AS/NZS 60950-1<br>• GB4943 |
| EMC: Emissions | • 47CFR Part 15 (CFR 47) Class A<br>• AS/NZS CISPR22 Class A<br>• CISPR22 Class A<br>• EN55022 Class A<br>• ICES003 Class A<br>• VCCI Class A<br>• EN61000-3-2<br>• EN61000-3-3<br>• KN22 Class A<br>• CNS13438 Class A |
| EMC: Immunity | • EN55024<br>• CISPR24<br>• EN300386<br>• KN 61000-4 series |
| RoHS | The product is RoH-6 compliant with exceptions for leaded-ball grid-array (BGA) balls and lead press-fit connectors. |