# 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 9348GC-FX3 | 17.3 inches (43.9 cm) | Chassis without PSUs - 18.0 in (45.72 cm)<br>With NXA-PAC-350W PSUs - 19.7 in (49.9 cm)<br>With NXA-PHV-350W PSUs - 19.7 in (49.9 cm)<br>With NXA-PDC-440W PSUs - 21.0 in (53.34 cm) | 1.72 inches (4.4 cm) (1 RU) |

# Switch and Module Weights and Quantities

| Component | Weight per Unit | Quantity |
|---|---|---|
| Cisco Nexus 9348GC-FX3 Chassis (N9K-C9348GC-FX3) | 14.33 lb (6.49 kg) | 1 |
| Fan Module<br>– Port-side exhaust (blue) (NXA-SFAN-30CFM-PE)<br>– Port-side intake (burgundy) (NXA-SFAN-30CFM-PI) | —<br>0.26 lb (0.12 kg) | 3 |
| Power Supply module<br>– 350-W AC port-side intake (burgundy) (NXA-PAC-350W-PI2)<br>– 350-W AC port-side exhaust (blue) (NXA-PAC-350W-PE2)<br>– 350-W PHV port-side intake (burgundy) (NXA-PHV-350W-PI)<br>– 350-W PHV port-side exhaust (blue) (NXA-PHV-350W-PE)<br>– 440-W DC port-side intake (burgundy) (NXA-PDC-440W-PI)<br>– 440-W DC port-side exhaust (blue) (NXA-PDC-440W-PE) | —<br>2.64 lb (1.2 kg) | 2 (1 for operations and 1 for redundancy) |

# Transceiver and Cable Specifications

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 Dissipation Requirement |
|---|---|---|---|
| Cisco Nexus 9348GC-FX3 | 226 W | 242 W | 825.738 BTUs per hour |

# Power Specifications

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

## 350-W AC Power Supply Specifications

These specifications apply to the following power supplies:

| 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<br>3.65 A at 208 VAC |
| Maximum input volt-amperes | 760 A at 100 VAC |
| Maximum output power per power supply | 350 W |
| Maximum inrush current | 33 A (sub-cycle duration) |
| Maximum hold-up time | 12 ms at 350 W |
| Power supply output voltage | -54 VDC |
| Efficiency rating | Climate Savers Platinum Efficiency (80Plus Platinum certified) |
| Form factor | RSP1 |

# 350-W PHV Power Supply Specifications

These specifications apply to the following power supplies:

- NXA-PHV-350W-PE
- NXA-PHV-350W-PI

| Characteristic | Specification |
|---|---|
| Input voltage | 192 to 400 VDC<br>90 to 305 VAC |
| Input frequency | Nominal range: 50 to 60 Hz (Range: 47-63 Hz) |
| Maximum output power per power supply | 350 W |
| Power supply output voltage | -54 VDC |
| Efficiency rating | Climate Savers Platinum Efficiency (80Plus Platinum certified) |
| Form factor | RSP1 |

# 440-W DC Power Supply Specifications

These specifications apply to the following power supplies:

- NXA-PDC-440W-PE
- NXA-PDC-440W-PI

| Characteristic | Specification |
|---|---|
| Maximum output power | 440 W |
| Input current | 16 -8 A |
| DC input voltage | -36 to -72 VDC |
| Output ratings | -56 V@7.86 A |
| Voltage range domestic | -36 VDC (minimum), -48 VDC (nominal), -72 VDC (maximum) |
| Voltage range international | -36 VDC (minimum), -48 VDC (nominal), -72 VDC (maximum) |
| Total input BTU[1] | 1841 BTUs per hour, 540 W |
| Total output BTU[2] | 1502 BTUs per hour, 440 W |
| Branch circuit protection | 20 A |

[1] The total input and total output BTU ratings refer to input power to the power supply and output power to the switch. The BTU ratings are based on -36 VDC.

[2] The total input and total output BTU ratings refer to input power to the power supply and output power to the switch. The BTU ratings are based on -36 VDC.

# 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

| Power Type | 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) |
| 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) |

| Power Type | Power Cord Part Number | Cord Set Description |
|---|---|---|
| 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

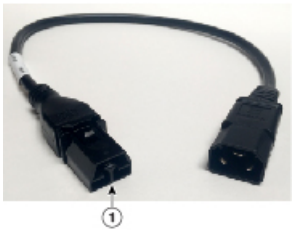
| Part Number | Cord Set Description | Photo |
|---|---|---|
| CAB-HVAC-SD-0.6M | HVAC<br>2-foot (0.6 m) cable with Saf-D-Grid and SD connectors<br>277V AC |  |
| CAB-HVAC-C14-2M | HVAC<br>6.6-foot (2.0 m) cable with Saf-D-Grid and C14 (use for up to 240 V) connector<br>250V AC |  |
| CAB-HVAC-RT-0.6M | 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. |

# DC Power Cable Specifications

| Part ID Number | Description | Photo |
|---|---|---|
| NXA-PDC-440W-PE/PI | The 440W DC power supply (NXA-PDC-440W-PE/PI) is shipped with wiring instructions along with these parts: LUG,FAST,UNIN/#8AWG,RED; LUG,FORK,INSL,16-14G,#6,NY,BLUwNARROW TONGUE; LUG,RING,16-14AWG,#6 |  |

# 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. |
| Safety | • CAN/CSA-C22.2 No. 60950-1 Second Edition<br>• CAN/CSA-C22.2 No. 62368-1-19 Third Edition<br>• NRTL 60950-1 Second Edition<br>• IEC 62368-1<br>• EN 62368-1<br>• AS/NZS 62368-1<br>• GB4943<br>• UL 62368-1 |

| Specification | Description |
|---|---|
| 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. |