

Start Here: Installation, Safety, and Regulatory Information for the HPE Aruba Networking Modular Power Supplies

All product documentation

For the latest release of hardware and software documentation for HPE Aruba Networking switches and accessories, including the *Installation and Getting Started Guide* describing how to install the modular power supplies listed in this document, visit the HPE Aruba Networking Support Portal at the following link: <https://networkingsupport.hpe.com/downloads>

See the rest of this guide for important pre-setup information.



NOTE: There are no user-serviceable parts in this product. For switch or accessory service needs, contact an authorized Aruba representative.

Applicable products

- **Aruba X371 12VDC 250W 100-240VAC Power Supply (JL085A):** A 250 watt power supply for non-PoE switches. This power supply does not provide any PoE power, and is keyed so that it will not fit into the power supply slots of Aruba PoE switches.
- **Aruba X371 12VDC 250W 100-240VAC Power-to-Port Power Supply (JL760A):** A 250 watt and back-to-front fan flow power supply for the non-PoE switches.
- **Aruba X391 550W Port to Power AC Power Supply (JL600A):** A 550 watt power supply for non-PoE switches.
- **Aruba X391 550W Power to Port AC Power Supply (JL712A):** A 550 watt and back-to-front fan flow power supply for non-PoE switches.
- **Aruba X372 54VDC 680W 100-240VAC Power Supply (JL086A):** A 680 watt power supply for applicable PoE switches. Offers up to 370 watts of PoE power, and is keyed so that it will not fit into the power supply slots of non-PoE Aruba switches.
- **Aruba X372 54VDC 1050W 110-240VAC Power Supply (JL087A):** A 1050 watt power supply for applicable PoE switches. Offers up to 740 watts of PoE power, and is keyed so that it will not fit into the power supply slots of non-PoE Aruba switches.
- **Aruba X372 54VDC 1600W 110-240VAC Power Supply (JL670A):** A 1600 watt (high-line)/1050 watt (low-line) power supply for applicable PoE switches. Offers up to 1440 watts (high-line) or 740 watts (low-line) of PoE power, and is keyed so that it will not fit into the power supply slots of non-PoE Aruba switches.

Legal Disclaimer

The resource assets in this document may include abbreviated and/or legacy terminology for HPE Aruba Networking products. See www.arubanetworks.com for current and complete HPE Aruba Networking product lines and names.



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Installation precautions and guidelines

To help avoid personal injury or product damage when installing the power supply in an Aruba switch, read the following installation precautions and guidelines.



CAUTION:

- Use only Aruba approved power cords.
- Disconnect AC power from the power supply BEFORE installing or removing the power supply. The power supply must NOT be connected to AC power while it is being installed or removed. The switch power supplies are hot-swappable; that is, a power supply that is disconnected from the power source can be installed or removed while the switch is receiving power from another power supply installed in the other power supply slot.
- If a power supply must be removed and then reinstalled, wait at least five seconds before reinstallation. The power supply needs this time to dissipate any retained power. Install a cover plate on any switch power supply slot that is not in use.
- A slot cover plate MUST be secured over any power supply slot that does not contain a power supply unit. This is required for proper air flow and thermal operation. Leaving a power supply slot uncovered can cause an over-temperature condition inside the switch that can result in the switch shutting down. During replacement of a power supply unit, it is acceptable to allow the slot to remain uncovered for up to two minutes in a switch connected to a power source.
- Make sure the power source is properly grounded, then use the power cord supplied with the power supply to connect it to the power source. If your installation requires a different power cord than the one supplied with the power supply, be sure the cord is adequately sized for the switch's current requirements. In addition, be sure to use a power cord displaying the mark of the safety agency that defines the regulations for power cords in your country. The mark is your assurance that the power cord can be used safely with the power supply.
- When installing the switch, note that the AC outlet should be near the switch and should be easily accessible in case the switch must be powered off.
- Ensure the power supply does not overload the power circuits, wiring, and over-current protection. To determine the possibility of overloading the supply circuits, add together the ampere ratings of all devices installed on the same circuit as the switch with this power supply, and compare the total with the rating limit for the circuit. The maximum ampere ratings are usually printed on the devices near their AC power connectors.
- Do not install the power supply into a switch that is in an environment where the operating ambient temperature might exceed 45°C (113°F) for more than a short period of time.
- Make sure that the airflow around the front, back, and sides of the switch is not restricted.



NOTE: If your switch is configured with redundant power supplies, the switch will not suffer any loss of traffic or performance if a power supply fails, except for possible PoE reallocation on PoE Class 4 and PoE Class 6 switches.

Power cords

Aruba includes the power cord intended for use with your Aruba switch and power supply. Different countries/regions may require different power cords. For a list of the power cords that apply to your switch or power supply, see the section that lists power cords in the latest edition of the *Installation and Getting Started Guide* for your switch.



CAUTION: Only Aruba-approved power cords may be used with Aruba devices. To access the power cord information for your switch, see the latest edition of the *Installation and Getting Started Guide* for your switch and power supply. Lost or damaged power cords must be replaced only with Aruba-approved power cords. If your installation requires a different power cord than the one supplied with the switch and/or power supply, be sure that the cord is adequately sized for the current requirements of the switch. In addition, be sure to use a power cord displaying the mark of the safety agency that defines the regulations for power cords in your country/region. The mark is your assurance that the power cord can be used safely with the switch and power supply.



WARNING: Do not use a damaged or non-recommended power cord with your switch. Using such power cords voids the switch and power supply warranty. It can also cause serious electrical problems, including injury or death to personnel, and damage to the switch and other property. If you cannot verify that you have a power cord approved for use with your switch model, contact your authorized Aruba dealer or sales representative for assistance.



WARNING: Remove the power cord from the switch before mounting or dismounting the switch.

Safety and regulatory information



NOTE: For important safety, environmental, and regulatory information, see *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at <https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>.

Table 1: Electrical information for Aruba modular power supplies using direct AC voltage

Power supply model	Maximum current	AC voltage	Frequency range
Aruba X371 12VDC 250W 100-240VAC Power Supply (JL085A)	3A-1.2A for 100-240VAC	100-240	50/60 Hz
Aruba X371 12VDC 250W 100-240VAC Power-to-Port Power Supply (JL760A)	3A-1.2A for 100-240VAC	100-240	50/60 Hz
Aruba X391 550W Port to Power AC Power Supply (JL600A)	7.1A for 100-127VAC 3.4A for 200-240VAC	100-240	47/63 Hz
Aruba X391 550W Power to Port AC Power Supply (JL712A)	7.1A for 100-127VAC 3.4A for 200-240VAC	100-240	47/63 Hz
Aruba X372 54VDC 680W 100-240VAC Power Supply (JL086A)	8A-3.5A for 100-240VAC	100-240	50/60 Hz
Aruba X372 54VDC 1050W 110-240VAC Power Supply (JL087A)	12A-5A for 110-240VAC	100-240	50/60 Hz
Aruba X372 54VDC 1600W 110-240VAC Power Supply (JL670A)	11A for 110-120VAC 9A for 200VAC 8A for 208-240VAC	110-120 200 208-240	50-60 Hz

Table 2: Environmental and safety/regulatory information for Aruba modular power supplies

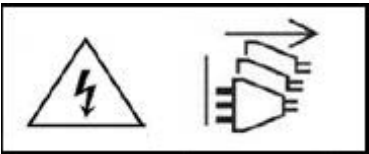
Operating temperature:	0°C to 45°C (32°F to 131°F)
Relative humidity:	15% to 95% at 40°C (104°F) non-condensing
Non-operating temperature:	-40°C to 70°C (-40°F to 158°F)
Non-operating relative humidity:	15% to 90% at 45°C (131°F)
Maximum operating altitude:	3.0 km (10,000 ft)
Non-operating altitude:	4.6 km (15,000 ft)
Safety-EU	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013 EN 62368-1:2014 +A11:2017
Safety-Worldwide	IEC60950-1:2005 Ed.2; Am 1:2009+A2:2013 IEC62368-1, Ed. 2 IEC60825:2007 (Applies to products with lasers)
North American	UL60950-1, CSA 22.2 No 60950-1 UL62368-1 Ed.2



NOTE: Environmental and other switch and modular power supply specifications, such as acoustics data, are included in the latest version of the *Installation and Getting Started Guide* for the switch.



CAUTION: To completely remove power from the switch, disconnect all power cords.
Shock hazard.



WARNING: For indoor use only. The switch, AC power cord and all connected cables are not designed for outdoor use.

China altitude warning

安全说明和标记	仅适用于海拔 2000m 以下地区安全使用。
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Japan VCCI Class A statement

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI — A

Korea EMC Class A statement

사용자 안내문

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

Belarus Kazakhstan Russia marking



For manufacturer and local representative information, see *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products* at <https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>.

Preview of installing or removing an Aruba modular power supply unit



WARNING: During installation or removal, ensure that the AC power is NOT connected to the power supply source.

1. Disconnect the power supply module from the AC power source.
2. If you are installing a power supply module:
 - a. Remove the power supply slot cover plate from the back panel of the switch.
 - b. Slide the power supply module into the power supply slot until the locking mechanism locks.
 - c. Connect the AC power source to the power supply module.
3. If you are removing a power supply module:
 - a. Depress the locking lever and slide the power module out of the slot.
 - b. Install a new power module or replace the power supply slot cover plate over the empty slot.

Documentation feedback

Send any errors, suggestions, or comments to Documentation Feedback (docsfeedback-switching@hpe.com).

