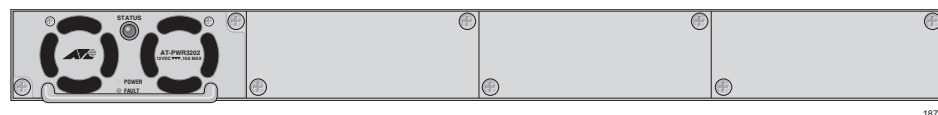


AT-RPS3204 Redundant Power Supply Installation Guide

Overview

The AT-RPS3204 powers an Allied Telesis switch if the switch's main power supply fails. The AT-RPS3204 is shipped with one AT-PWR3202 Power Supply installed in slot A1, which can supply power for one switch. The AT-RPS3204 can accommodate up to three additional AT-PWR3202 Power Supplies, supplying redundant power for a total of four Allied Telesis switches.

Front



A1 A2 B1 B2

AT-PWR3202 Power Supply Slots

B2 B1 A2 A1



Back

Verifying Package Contents

Verify that the correct components are included in your package:

- AT-RPS3204 Redundant Power Supply
- Two rack-mount brackets
- 12 rack-mount bracket screws
- Two AC power cords
- Two power cord retaining clips
- One 21-pin D-combo connector cable
- This installation guide

If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

Warranty

The AT-RPS3204 Redundant Power Supply (RPS) has a Lifetime Year Warranty (Five Years Power Supply and Fan). For detailed warranty information, see the www.alliedtelesis.com website.

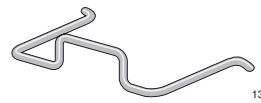
Installing the AT-RPS3204 Redundant Power Supply

To install an AT-RPS3204 Redundant Power Supply (RPS), perform the following procedure:

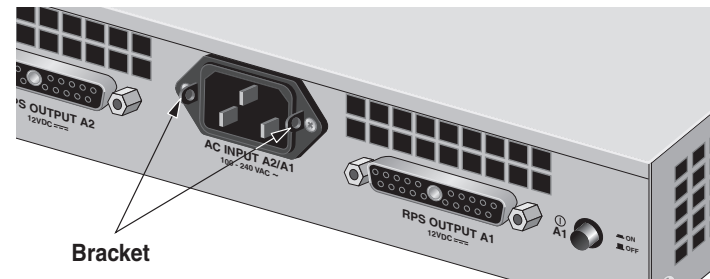
1. Remove the RPS from its shipping package and store the package in a safe place. You must use the original shipping package if you need to return the RPS to Allied Telesis.



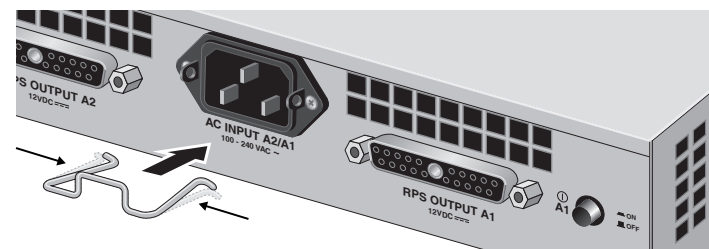
2. If you are installing the RPS in a rack, place the unit upside down on a level, secure surface. If you are not installing the RPS in a rack, go to step 5.
3. Use a flat-head screwdriver to remove the snap-on feet from the bottom of the power supply.
4. Turn the power supply over.
5. Locate the power cord retaining clips.



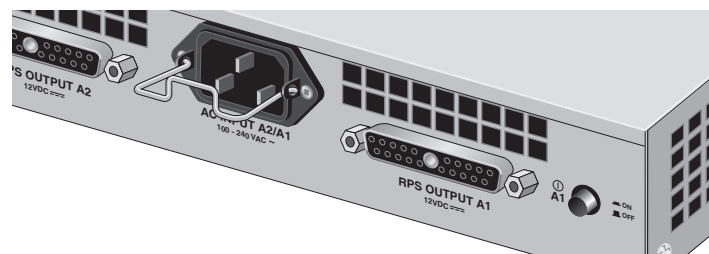
6. Locate the retaining bracket on each side of the two AC power connectors on the back of the power supply.



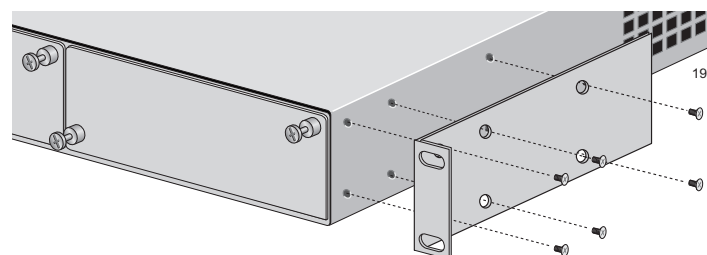
7. With the "u" of the clip facing up, press the sides of the clip toward the center and insert the short end into the holes in one of the retaining brackets.



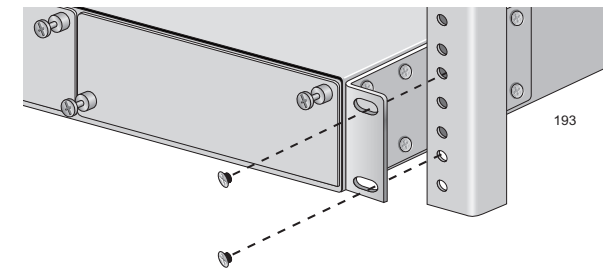
8. Repeat steps 6 and 7 to install the second retaining clip in the other retaining bracket.
9. Verify that the retaining clips are in the correct position.



10. Attach a rack-mount bracket to one side of the front of the RPS, using a # 1 Phillips screwdriver and six rack-mount screws provided in the package. If you are not installing the unit in a rack, go to step 13.



11. Install the second rack-mount bracket on the other side of the RPS, using the remaining rack-mount screws.
12. Mount the AT-RPS3204 in a 19-inch rack using standard screws (not provided).



Caution: Air vents must not be blocked and must have free access to room ambient air for cooling. E6

Warning: Operating Temperature. This product is designed for a maximum ambient temperature of 40° C. E7

All Countries: Install product in accordance with local and National Electrical Codes. E8

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern. E21

Warning: Mounting of the equipment in the rack should be such that a hazardous condition is not created due to uneven mechanical loading. E25

If installed in a closed or multi-unit rack assembly, the ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (T_{mra}). E35

Caution: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. E36



Warning: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuits (e.g., use of power strips). E37

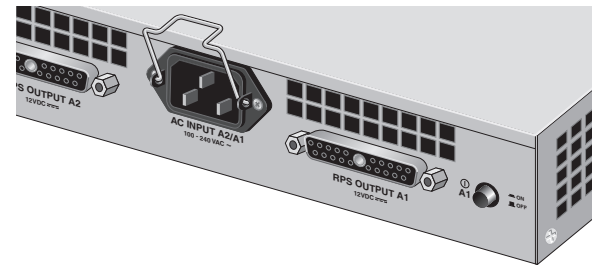


Warning: High leakage current due to multiple power supplies. Connection of each power cord to a separate branch circuit with proper earth connections is essential.

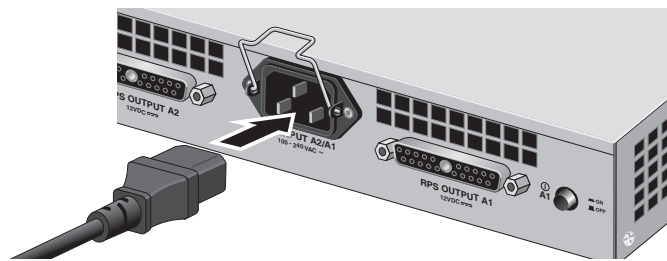
13. Verify that the On/Off switches for the power supplies marked A1 and A2 are in the Off (out) position.



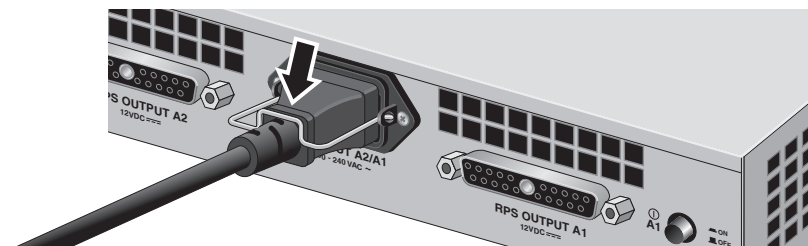
14. Position the power cord retaining clip in the up position.



15. Plug the power cord into the AC power connector on the back of the power supply.



16. Secure the cord by lowering the power cord retaining clip.



17. Plug the AC power cord into an AC wall outlet rated for at least 10 Amps.

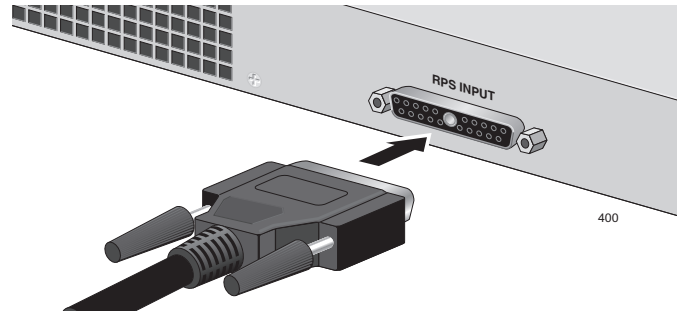
18. Verify that the On/Off switches for the power supplies marked B1 and B2 are in the Off (out) position.

19. Repeat steps 13 through 17 to plug in the other power cord.

Note

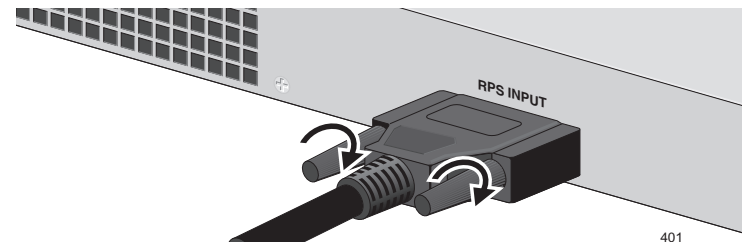
DO NOT plug the second power cord into the outlet where the first power cord is plugged in unless the outlet is rated for at least 20 Amps.

20. Plug one end of the 21-pin D-combo connector cable into the connector labeled "RPS INPUT" on the rear panel of a switch.

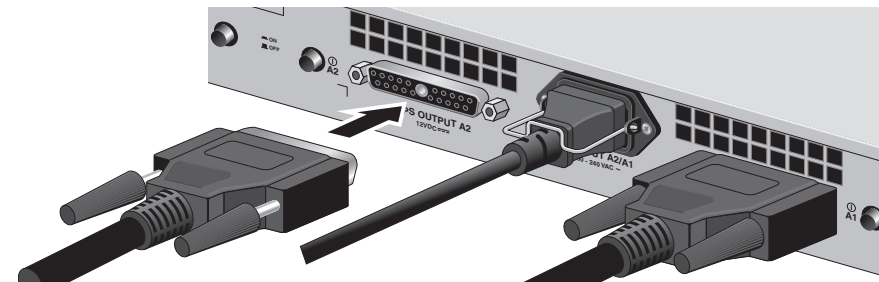


For information about the pinouts for the 21-pin D-combo connector cable, see Appendix A of the switch's installation guide.

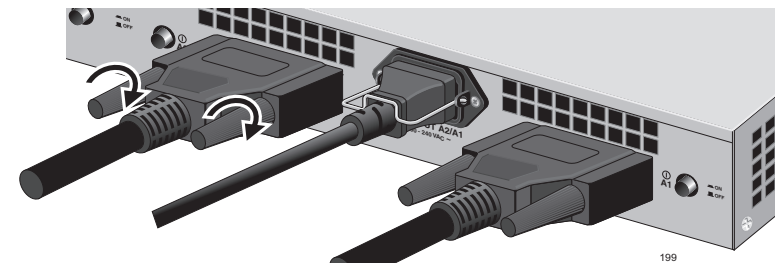
21. Tighten the thumb screws on the connector.



22. Plug the other end of the cable into the connector labeled "RPS OUTPUT A1" on the back of the RPS3204 unit.



23. Tighten the thumb screws on the connector.

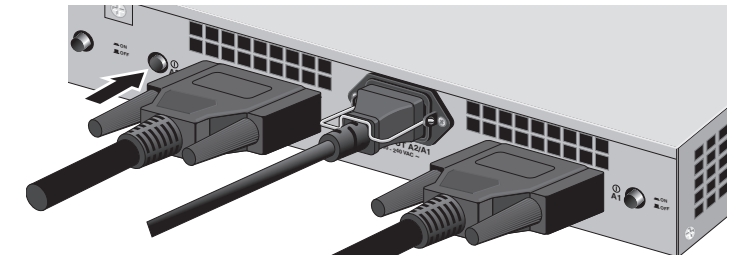


Note

An AT-PWR3202 Power Supply is NOT hot-swappable into and out of the AT-RPS3204 Redundant Power Supply. To replace an AT-PWR3202 unit, first turn the power off using the appropriate On/Off switch and then remove and replace the power supply.

To remove the connector cable, turn the power off first using the appropriate On/Off switch.

24. Press the On/Off switch for the power supply marked A1 to move it to the On (in) position.



The RPS LED on the front of the switch should be green. For more information about the RPS LED, refer to the switch's installation guide.

To install and connect additional AT-PWR3202 Power Supplies, refer to the documentation that is shipped with that product.

Specifications

Item	Specification
Dimensions (H x W x D)	43.7 x 440.5 x 360.6 mm (1.72 x 17.34 x 14.20 in.)
Operating Temperature	0° C to 40° C
Relative Humidity	<85% noncondensing
Supply Voltage	12 V
RPS Input Voltage	100 - 240 V AC
RPS Output Voltage	12 V DC

Electrical, Safety, and Emissions Statements

This product meets the following standards:

U.S. Federal Communications Commission	
Radiated Energy Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment.	

Industry Canada	
This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.	

RFI Emissions	EN 55022 Class A, EN61000-3-2, EN61000-3-3, VCCI Class A
Immunity	EN 55024



Warning: In a domestic environment this product may cause radio interference in which case the use may be required to take adequate measures.

Electrical Safety UL 60950 (CULUS), EN 60950 (TUV)

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