NETGEAR BUSINESS

Installation Guide

NETGEAR Power Supply Unit for Managed Switches
APS150W, APS250W, APS299W, APS550W, APS600W, APS750W, APS1000W, and APS1200W

Package contents

- Power supply unit
- Power cord (varies by region)
- Installation guide

Overview

The following table provides an overview of the power supply units (PSUs) for managed switches and the models in which they are supported.

PSU Model	Used in Switch Model
APS150W	M4300-28G
	M4300-52G
APS250W	M4300-8X8F
	M4300-12X12F
	M4300-24X24F
APS299W	M4300-16X
APS550W	M4300-28G-POE+
	M4300-52G-POE+
APS600W	M4300-96X
	M4300-16X
APS750W	M4500-32C
	M4500-48XF8C
APS1000W	M4300-28G-POE+
	M4300-52G-POE+
	M6100-3S
	RPS4000v2
APS1200W	M4300-96X

AC OK LED. All PSUs provide one AC OK LED. During normal operation, this LED lights green to indicate that the PSU is receiving power.

DC OK LED. Model APS150W also provides one DC OK LED. During normal operation, this LED lights green to indicate that the DC outputs are within regulation limits.
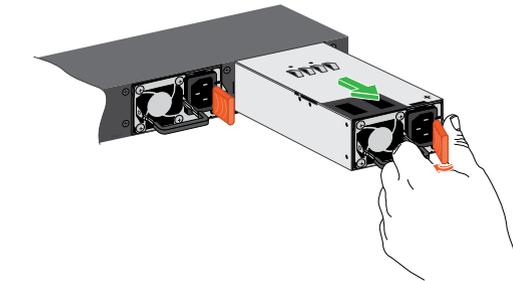
Install an additional power supply unit

In models with more than one power supply bay, you can install an additional PSU.

1. Pull out the cover plate from the power module bay in which you want to insert the additional PSU.

2. Insert the additional PSU into the power module bay, and gently push the PSU into the bay.

   CAUTION: When inserting the PSU, do not use unnecessary force. Doing so can damage the connectors on the back of the PSU and on the midplane.

3. Connect the end of the power cord to the power receptacle on the PSU.

4. Plug the AC power cord into a power source such as a wall socket or power strip.

   When you apply power, the AC OK LED on the PSU lights. The LED on the switch for the power supply bay also lights. If these LEDs do not light, make sure that the power cord is plugged in and that the power source is good.

Replace a power supply unit

In models with more than one PSU, the PSUs are hot-pluggable.

1. If your switch functions with a single PSU only, disconnect the power cord from the PSU and let the switch power down.

   If your switch functions with more than one PSU, you do not need to power down the switch and you can perform a hot swap.

2. Remove the PSU from the power module bay by moving the orange release latch to the left and pulling the extraction handle.

3. Insert the replacement PSU into the power module bay, and gently push the PSU into the bay until the latch locks.

   CAUTION: When inserting the PSU, do not use unnecessary force. Doing so can damage the connectors on the back of the PSU and on the midplane.

4. Connect the end of the power cord to the power receptacle on the PSU.

5. Plug the AC power cord into a power source such as a wall socket or power strip.

   When you apply power, the AC OK LED on the PSU lights. The LED on the switch for the power supply bay also lights. If these LEDs do not light, make sure that the power cord is plugged in correctly and that the power source is good.

Technical specifications

Specifications	PSU
AC input	• **APS150W**. 100–127VAC, 3A, 50–60 Hz or 200–240VAC, 1.5A, 50–60 Hz • **APS250W**. 100–240VAC, 3.5–2A, 50–60 Hz • **APS299W**. 100–240VAC, 5–2.5A, 50–60 Hz • **APS550W**. 100–240VAC, 9–4A, 50–60 Hz • **APS600W**. 90–132VAC, 8A, 47–63 Hz or 180–264VAC, 4A, 47–63 Hz • **APS750W**. 100–240VAC, 10/5.36A max, 50–60 Hz • **APS1000W**. 100–127VAC, 9.9A, 50–60 Hz or 200–240VAC, 7.8A, 50–60 Hz • **APS1200W**. 90–132VAC, 15A, 43–67 Hz or 180–264VAC, 8A, 43–67 Hz
DC output	• **APS150W**. +12V, 12.5A • **APS250W**. +12V, 20A or +12 VSB 1A • **APS299W**. +54.5V, 5.51A • **APS550W**. +54V, 10.95A or +12 VSB 2.08A • **APS600W**. +54.5 VDC, 11A • **APS750W**. +12V, 61.5A or +12VSB 3A • **APS1000W**. 56V, 12.12A or +12 VSB 1.8A (@ 100–127VAC) 56V, 17.35A or +12 VSB 2.4A (@ 200–240VAC) • **APS1200W**. +54.5 VDC, 22A @ 230 VAC, or 18.35A @ 115 VAC

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Specifications	PSU
Dimensions (H x W x D)	• **APS150W**. 1.5 x 2.0 x 7.3 in. (39 x 50.5 x 185 mm) • **APS250W**. 1.5 x 2.9 x 7.3 in. (39 x 74 x 185 mm) • **APS299W**. 1.5 x 2.9 x 7.6 in. (39 x 74 x 194 mm) • **APS550W, APS1000W**. 1.6 x 3.6 x 8.7 in. (40 x 87 x 208 mm) • **APS600W, APS1200W**. 1.6 x 2.9 x 7.3 in. (40 x 73 x 185 mm) • **APS750W**. 1.6 x 7.5 x 8.1 in. (40 x 192 x 206 mm)
Operating temperature	• **APS250W**. 32 to 122°F (0 to 50°C) • **APS150W, APS299W, APS550W, APS600W, APS1000W, APS1200W**. 23 to 122°F (–5 to 50°C) • **APS750W**. 32 to 131°F (0 to 55°C)
Operating relative humidity	• **APS150W**. Up to 95% noncondensing • **APS250W, APS299W, APS550W, APS600W, APS1000W, APS1200W**. 5% to 95% noncondensing • **APS750W**. 10 to 90% noncondensing
Operating altitude level	• **APS250W, APS550W, APS1000W**. Up to 9,800 feet (3,000 m) above sea level • **APS150W , APS299W, APS600W, APS750W, APS1200W**. Up to 16,000 feet (5,000 m) above sea level
Storage temperature	• **APS150W, APS250W, APS299W**. –40 to 158°F (–40 to 70°C) • **APS550W, APS600W, APS1000, APS1200W**. –40 to 185°F (–40 to 85°C)
Storage altitude level	Below 49,000 feet (15,000 m) above sea level
MTBF	**All models except APS750W**. 4,534,733 hrs (~517 years) @ 77°F (25°C) **APS750W only**. 200,000 hrs (~23 years) @ 122°F (50°C)

Support

Thank you for purchasing this NETGEAR product. You can visit https://www.netgear.com/support/ to register your product, get help, access the latest downloads and user manuals, and join our community. We recommend that you use only official NETGEAR support resources.

Si ce produit est vendu au Canada, vous pouvez accéder à ce document en français canadien à https://www.netgear.com/support/download/. (If this product is sold in Canada, you can access this document in Canadian French at https://www.netgear.com/support/download/.)

For regulatory compliance information including the EU Declaration of Conformity, visit https://www.netgear.com/about/regulatory/.

See the regulatory compliance document before connecting the power supply.

Do not use this device outdoors. If you connect cables or devices that are outdoors to this device, see https://kb.netgear.com/000057103 for safety and warranty information.

Compliance		
Safety	IEC 60950-1, EN 60950-1, CB Certificate/Report, UL/CSA 60950-1	
	CE Low Voltage Directive 2006/95/EC (Europe)	
	CCC (China)	
	KC (Korea)	
EMC	CC / ICES-003 Emission (USA/Canada)	EN61000-4-6 RF Conducted
	CRISP 22 Emission (International)	EN61000-4-8 Power Frequency Magnetic Fields
	EN55022 Emission (Europe)	EN61000-4-11 Voltage Dips and Interruptions
	EN55024 Immunity (Europe)	EN61000-4-8 Power Frequency Magnetic Fields
	EN61000-4-2 Electrostatic Discharge	EN61000-4-11 Voltage Dips and Interruptions
	EN61000-4-3 Radiated RFI Immunity	EN61000-3-2 Harmonics (Europe)
	EN61000-4-4 Electrical Fast Transients level 4	EN61000-3-3 Voltage Flicker (Europe)
	EN61000-4-5 Electrical Surge Level	