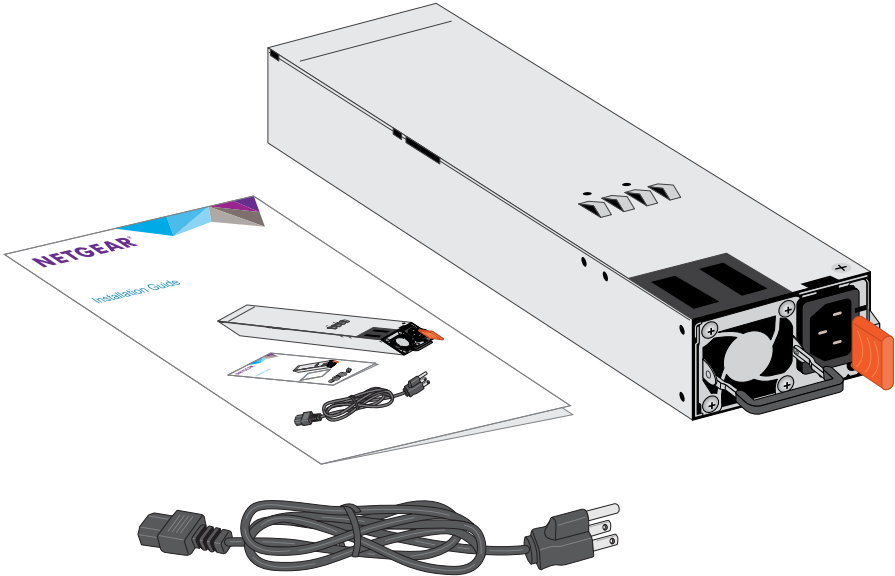# Installation

## NETGEAR ProSAFE Power Supplies Units for Managed Switches

APS150W, APS250W, APS550W, and APS1000W

## Package Contents



NETGEAR®

## Power Supply Unit Overview

The following table provides an overview of the power supply units (PSUs) for ProSAFE 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 |
| APS550W | M4300-28G-POE+ |
| | M4300-52G-POE+ |
| APS1000W | M4300-28G-POE+ |
| | M4300-52G-POE+ |
| | M6100-3S |
| | RPS4000v2 |

**AC OK LED**. All PSUs provide one AC OK LED. During normal operation, this LED must light green to indicate that valid AC is power is applied to the PSU.

**DC OK LED**. Model APS150W also provides one DC OK LED. During normal operation, this LED must light 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.

➢ **To 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, both the AC OK LED on the PSU and the switch's Power LED that is associated with the power supply bay light. If these LEDs do not light, make sure that the power cord is plugged in correctly and that the power source is good.
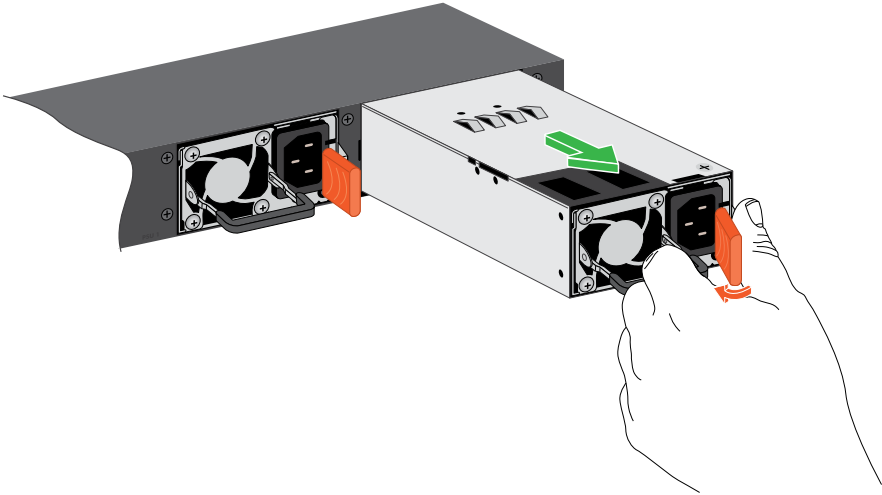
## Replace a Power Supply Unit

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

➢ **To replace a PSU:**

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, both the AC OK LED on the PSU and the switch's Power LED that is associated with the power supply bay light. If these LEDs do not light, make sure that the power cord is plugged in correctly and that the power source is good.

## Power Supply Unit Technical Specifications

The following table provides the technical specifications for the PSUs.

| Specification | APS150W | APS250W | APS550W | APS1000W |
|---|---|---|---|---|
| AC input | 100–27V ~3A 50–60 Hz or 200–240V ~1.5A 50–60 Hz | 100–240V ~3.5–2A 50–60 Hz | 100–240V ~9–4A 50–60 Hz | 100–127V ~9.9A 50–60 Hz or 200–240V ~7.8A 50–60 Hz |
| DC output | +12V 12.5A | +12V 20A +12 VSB 1A | +54V 10.95A +12 VSB 2.08A | 56V 12.12A +12 VSB 1.8A @ 100–127V  56V 17.35A +12 VSB 2.4A @ 200–240V |
| Dimensions (H x W x D) | 1.5 x 2.0 x 7.3 in. (39 x 50.5 x 185 mm) | 1.5 x 2.9 x 7.3 in. (39 x 74 x 185 mm) | 1.64 x 3.6 x 8.65 in. (39.3 x 86.36 x 207.56 mm) | 1.64 x 3.6 x 8.65 in. (39.3 x 86.36 x 207.56 mm) |
| Operating temperature | −5 to 50ºC (23 to 122ºF) | 0 to 50ºC (32 to 122ºF) | 0 to 55ºC (32 to 131ºF) | |

| Specification | APS150W | APS250W | APS550W | APS1000W |
|---|---|---|---|---|
| Operating relative humidity | Up to 95% noncondensing | 5% to 95% noncondensing | | |
| Operating altitude level | Below 5,000 m above sea level | Below 3,000 m above sea level | | |
| Storage temperature | −40 to 70ºC (−40 to 158ºF) | | −40 to 85ºC (−40 to 185ºF) | |
| Storage altitude level | Below 15,000 m above sea level | | | |
| Safety compliance | • IEC 60950-1 <br> • EN 60950-1 <br> • CB Certificate/Report <br> • UL/CSA 60950-1 <br> • CE Low Voltage Directive 2006/95/EC (Europe) <br> • CCC (China) <br> • KC (Korea) | | | |
| EMC compliance | • FCC / ICES-003 Emission (USA/Canada) <br> • CRISP 22 Emission (International) <br> • EN55022 Emission (Europe) <br> • EN55024 Immunity (Europe) <br> • EN61000-4-2 Electrostatic Discharge <br> • EN61000-4-3 Radiated RFI Immunity <br> • EN61000-4-4 Electrical Fast Transients level 4 <br> • EN61000-4-5 Electrical Surge Level <br> • EN61000-4-6 RF Conducted <br> • EN61000-4-8 Power Frequency Magnetic Fields <br> • EN61000-4-11 Voltage Dips and Interruptions <br> • EN61000-4-8 Power Frequency Magnetic Fields <br> • EN61000-4-11 Voltage Dips and Interruptions <br> • EN61000-3-2 Harmonics (Europe) <br> • EN61000-3-3 Voltage Flicker (Europe) | | | |
| MTBF | 4,534,733 hrs (~517 years) @ 25ºC | 160,000 hrs (~18.3 years) @ 25ºC | 1,708,756 hrs (~195 years) @ 25ºC | 1,272,908 hrs (~145 years) @ 25ºC |

## Support

Thank you for purchasing this NETGEAR product. You can visit *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.

For the current EU Declaration of Conformity, visit *http://support.netgear.com/app/answers/detail/a_id/11621/*.

For regulatory compliance information, visit *http://www.netgear.com/about/regulatory/*.

See the regulatory compliance document before connecting the power supply.