



Grandstream Networks, Inc.

Redundant Power Supply

Quick Installation Guide



Overview

The redundant power supply provides a stable switch running performance. It helps ensure uninterrupted operation and protection against device power supply failures by providing seamless failover for the switch. RPS-300W-B module provides PoE capability with a maximum output power of 240W.

RPS Introduction

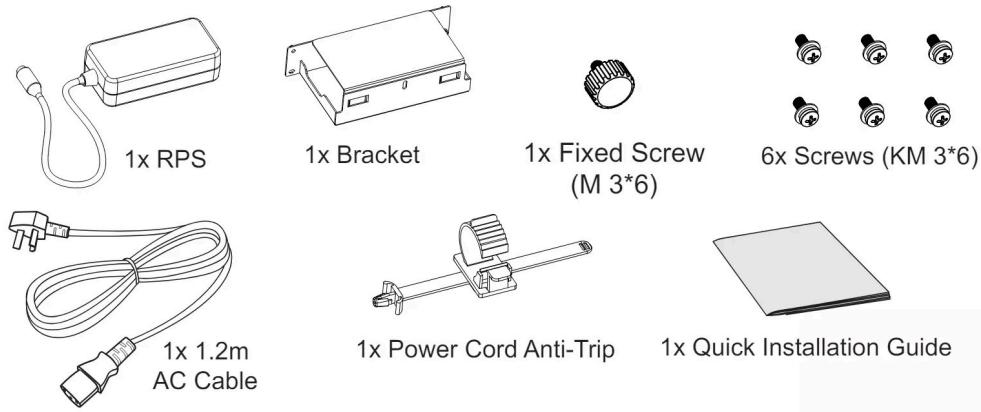
RPS Name	Adapter Model	Description	Supported Models
RPS-60W-B	UES65- 120500SPA2	Redundant Power 12V5A 60W with Bracket	GWN7813 GWN7832 GWN7831
RPS-300W-B	PA-1301-66C3	Redundant Power 54V5.56A 300W with Bracket	GWN7813P GWN7822P

RPS Introduction

Notes:

- For more switch models, please choose it according to the power requirements of the backplane RPS.
- Compliance:
 - (1) RPS-60W-B: UL, CE, UKCA, RCM, PSE, CCC, GS, ARG
 - (2) RPS-300W-B: UL, CE, UKCA, FCC, RCM
- When installing or removing the RPS, wear an anti-static wrist strap or gloves. It's necessary to ensure that one end of the strap is grounded and the other end is in a good contact with the wearer's skin.
- Before installing, ensure that the working voltage of the external power supply system, the voltage marked on the RPS, and the output voltage of the RPS are consistent with the required one.
- Do not touch any exposed wire parts in the RPS.
- Do not place the RPS in a damp place where the liquid may enter the interior of the switch.
- Do not attempt to open the RPS casing without permission.
- Do not expose the RPS-60W-B to temperatures outside the range of 0°C to 45°C for operation and -20°C to 70°C for storage; do not expose the RPS-300W-B to temperatures outside the range of 0°C to 40°C for operation and -40°C to 85°C for storage.
- Do not expose the RPS-60W-B to environments outside of the following humidity range: 10%-90% RH (Non-condensing) for operation and 5%-90% RH (Non-condensing) for storage; do not expose the RPS-300W-B to environments outside of the following humidity range: 10%-90% RH (Non-condensing) for operation and 5%-95% RH (Non-condensing).

Package Content



Package Content

Installation

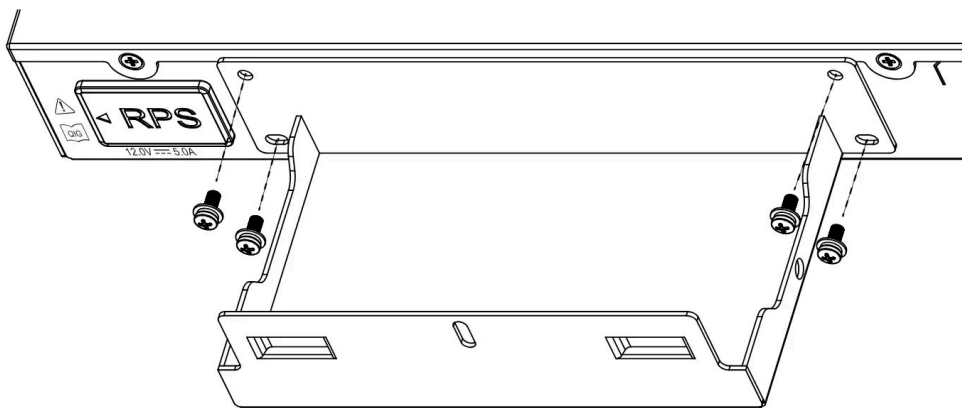
GWN7813 switch will be taken as an example.

Notes:

- Before installing/removing the RPS bracket, disconnect the main power supply of the switch.
- Installation sequence of RPS: Install RPS → Connect RPS to the switch → Connect the external power supply system.
- Disassembly sequence of RPS: Disconnect external power supply system → Disconnect RPS and the switch → Remove RPS.
- Power connection sequence: connect the main power first, then connect the RPS. The RPS status can be confirmed by the RPS indicator on the front panel of the switch.

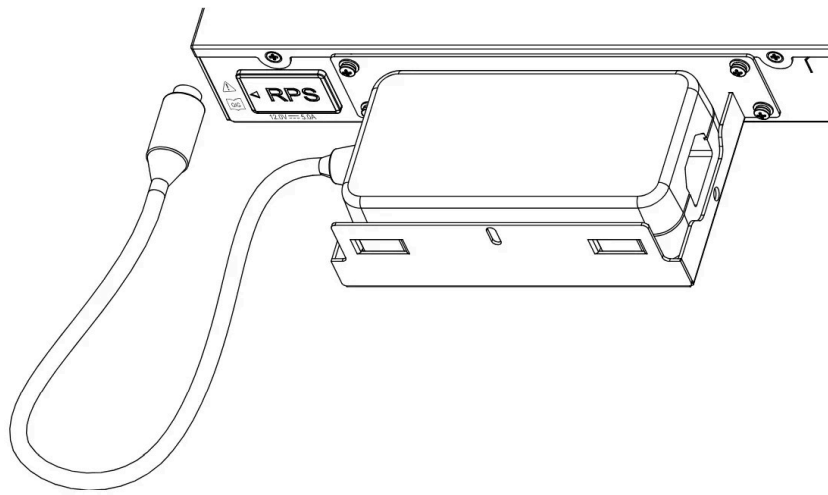
Step 1: Find the four screw holes next to RPS silicone plug on the back of the switch to ensure no obstructions.

Step 2: Fix the bracket base then align the four screw holes of the bracket base with the four screw holes on the back of the switch, and use KM3*6 screws to secure the base.



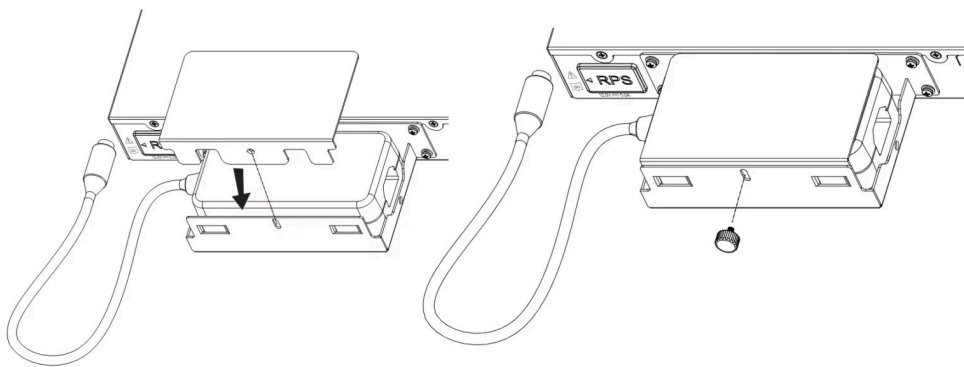
Installation Step 2

Step 3: Place the RPS horizontally into the bracket. Please ensure that the power cord is located on the side of the RPS silicone plug.



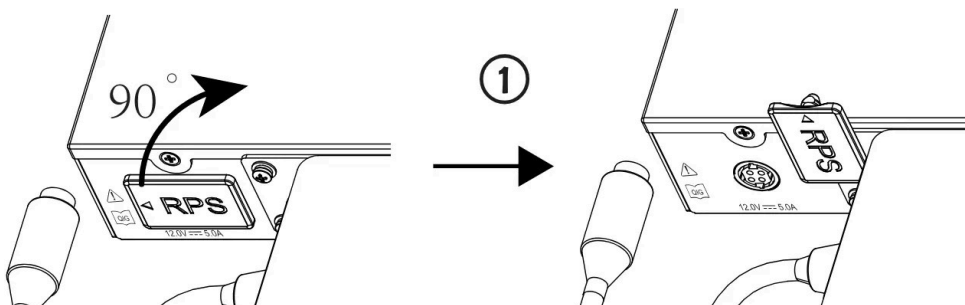
Installation Step 3

Step 4: Lower the bracket cover and ensure that the screw holes are aligned. Then, use the fixed screw (M3*6) to lock the RPS inside the bracket.

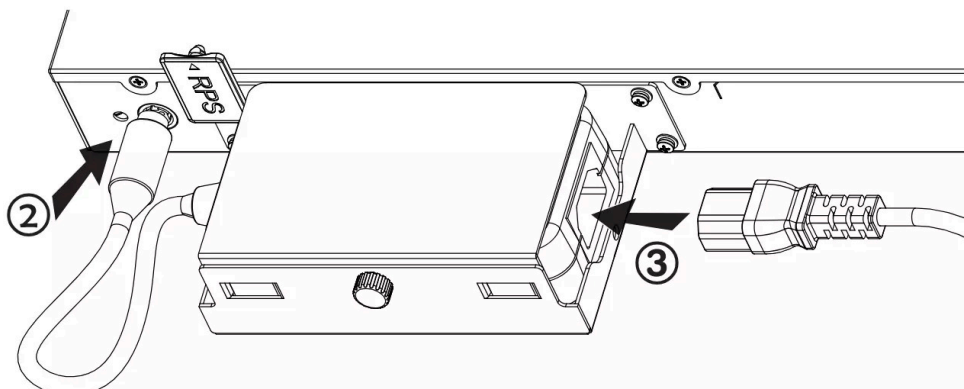


Installation Step 4

Step 5: Lift the RPS silicone plug from the arrow side and rotate it 90° clockwise to see the power hole, next connect the RPS to the switch, then connect the AC power cord to the RPS, finally complete the connection between the power cord and the power supply system.

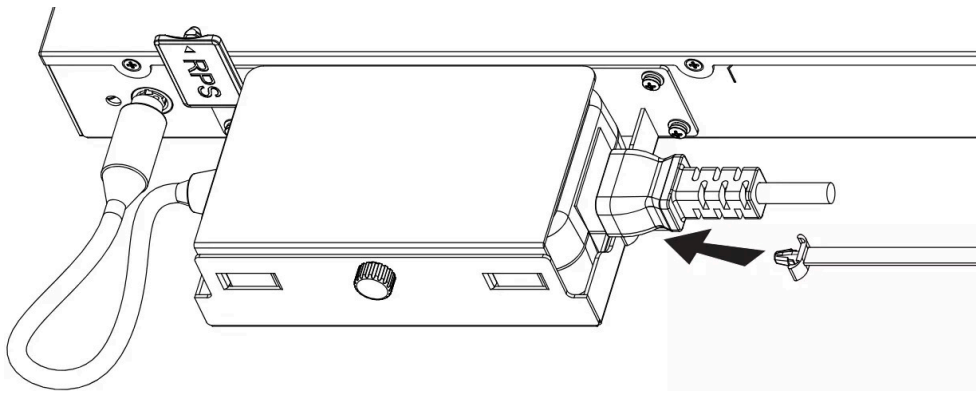


Installation Step 5



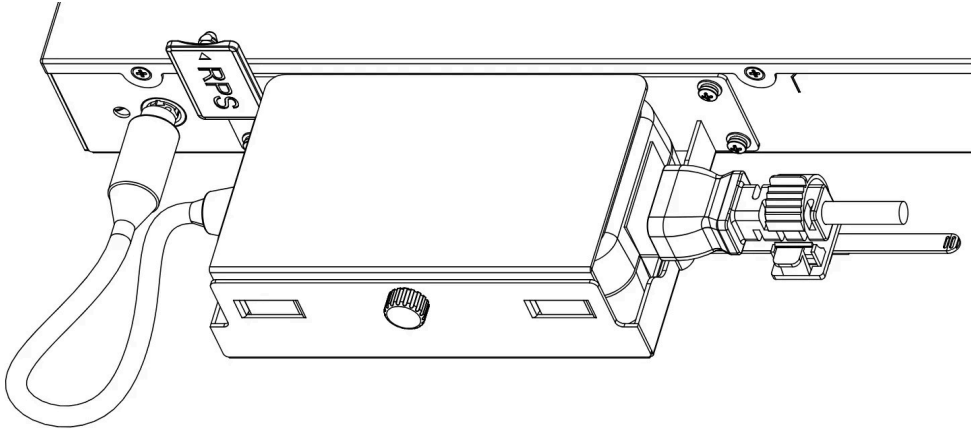
Installation Step 5

Step 6: To prevent accidental disconnection of the RPS, it's recommended to use a power cord anti-trip for installation. Place the smooth side of the fixed strap towards the power cord and connect it to the anti-trap hole below the power cord.



Installation Step 6

Step 7: Slide the protective rope over the fixed strap until the end of the power cord, then smoothly wrap the strap around the power cord and lock it tightly.



Installation Step 7

Refer to online documents and FAQ for more detailed information:

<https://www.grandstream.com/our-products>
