Sun Disk Shelf-24x3.5” SAS-2 and Sun Storage J4400 Array

Power Supply Replacement Guide

Part No. 820-7245-11
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Contents

Removing and Replacing a Power Supply

This document describes how to replace the power supply in the Sun Disk Shelf-24x3.5″ SAS-2 and in the Sun Storage J4400 Array.

Caution – Only trained service personnel should remove the covers on this equipment.

This product is intended for restricted access, whereby access is controlled through the use of a means of security (for example, key, lock, tool, badge access), and personnel authorized for access have been instructed on the reasons for the restrictions and any precautions that they need to take.

This document assumes that you have:

- Identified the chassis containing the failed power supply.
- Received the replacement power supply.

ESD Precautions

When performing this service action, observe the following electrostatic discharge (ESD) precautions:

- Remove all plastic, vinyl, and foam material from the work area.
- Wear an antistatic wrist strap at all times when handling any component.
- Before handling any component, discharge any static electricity by touching a grounded surface.
- Do not remove a component from its antistatic protective bag until you are ready to install it.
- After removing a component from the chassis, immediately place it on an antistatic surface or in antistatic packaging.
- Handle any card that is part of a component only by its edges and avoid touching the components or circuitry.
- Do not slide a component over any surface.
- Limit body movement (which builds up static electricity) during the removal and replacement of a component.

Power Supply Components

Each chassis contains two hot-swappable, redundant power supplies. If one power supply is turned off or malfunctions, the other power supply maintains electrical power. Each power supply contains two internal fans that provide cooling for the system.

FIGURE 1 identifies the power supply components.

Note – FIGURE 1 shows the Sun Disk Shelf-24x3.5" SAS-2. On the Sun Storage J4400 Array, the connectors and LEDs on the SIM boards at the bottom of the system are arranged differently. However, the power supply connectors and LEDs identified in FIGURE 1 are the same for both systems.

FIGURE 1 Power Supply LEDs and Components (Back View)

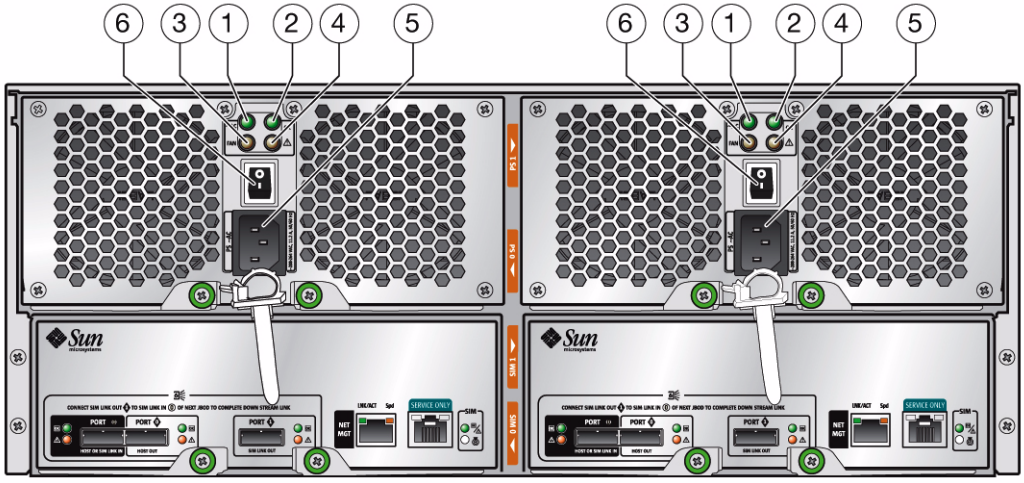


Figure Legend

1	AC power LED	**4**	Power supply fault LED
2	DC power LED	**5**	Universal power connector
3	Fan fault LED	**6**	Power switch

Procedure

To replace a failed power supply, you must complete the following steps, which are described in detail in the remainder of this guide:

1. Remove the failed power supply. See "To Remove a Failed Power Supply" on page 4.
2. Install the replacement power supply. See "To Install a New Power Supply" on page 5.
3. Verify the installation. See "To Verify the Installation" on page 6.

Caution – Potential loss of data access. Never remove a power supply unless the power fault LED or fan fault LED is amber (FIGURE 1).

Caution – Electrical shock hazard. The power supplies in this equipment can produce high energy hazards. Only trained personnel with authorized access to this equipment should remove and replace modules in the system.

▼ To Remove a Failed Power Supply

1. **From the back of the cabinet, locate the failed power supply.**

   The power supply fault or fan fault LED is amber (FIGURE 1).

2. **Ensure that the power supply on/off switch is in the "O" (off) position.**
3. **Remove the power cord tie strap from the power cord.**
4. **Unplug the power cord from its power supply connector.**
5. **Remove the power supply from the system (FIGURE 2):**

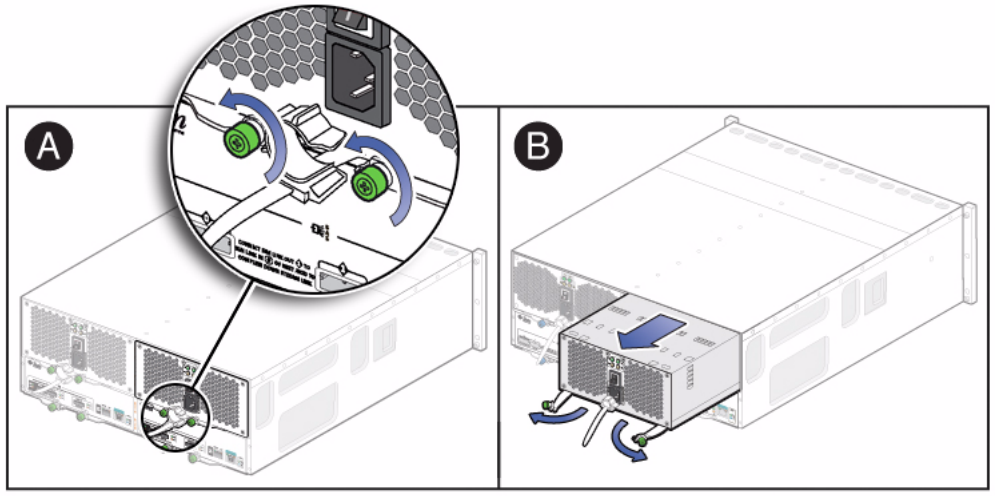
   a. **Loosen the two captive screws on the power supply ejection levers.**

Note – You might need a Phillips No. 2 screwdriver to loosen the screws.

   b. **Swing the ejection levers fully outward to eject the power supply from the chassis.**

Caution – Be careful to not damage the circuit board connector extending from the back of the power supply.

FIGURE 2 Removing a Power Supply



▼ To Install a New Power Supply

Caution – Follow all ESD precautions (see "ESD Precautions" on page 2) and use care when handling either the new or failed power supply.

1. **Unpack the new power supply.**

Caution – Be careful to not damage the circuit board connector extending from the back of the power supply.

2. **Place the failed power supply in the packing materials so that you can return it to Oracle for proper disposal.**

3. **Insert the new power supply into the chassis by completing the following steps (FIGURE 3):**

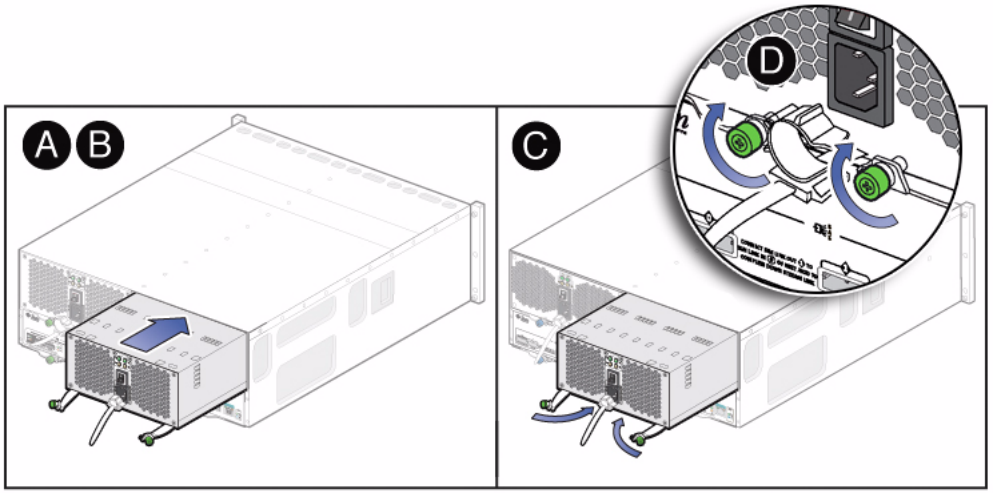
   a. **Swing both ejection levers to the fully open position.**

   b. **Align the power supply with the open slot and slide it into the chassis until it engages with the chassis connectors and the ejection levers begin to swing closed.**

   c. **Simultaneously push both ejection levers toward the middle of the power supply to seat it in the chassis.**

   d. **Tighten the two ejection lever captive screws to secure the power supplies.**

FIGURE 3 Installing a Power Supply



4. **Ensure that the power supply on/off switch is in the "O" (off) position.**

5. **Plug the power cord into the new power supply and attach the power cord tie strap to the power cord.**

▼ To Verify the Installation

1. **Place the power supply on/off switch to the "I" (on) position.**

2. **Verify that the AC and DC power LEDs are lit steady green and that the power supply fault LED is off.**

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