

HPE PSR150-A & PSR150-D Series Power Supplies User Guide



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Introduction to the power supply

The PSR150-A (JD362A) and PSR150-A1 (JD362B) are AC-input and DC-output power supplies; the PSR150-D (JD366A) and PSR150-D1 (JD366B) are DC-input and DC-output power supplies. These power supplies can convert the input voltage to 12 V that is required by the powered device, and their maximum output power is 150 W.

Table 1 Supported features

Feature	Description
Protection	Output over-voltage protection, output short-circuit protection, output current-limiting protection, and overheat protection.
Redundancy	Supports parallel connection of two power supplies, thus implementing 1+1 redundant current sharing.
Hot swapping	When the device operates properly, you can power off a power supply of the 1+1 redundant power supply system and remove it from the device.

Auto-recovery support of the power supplies in protection state is shown in Table 2.

Table 2 Protection functions

Protection function	Status	Auto-recovery support
Over-voltage protection	No power is supplied because the power supply is deadly locked.	Not supported
Short-circuit protection	No power is supplied because the power supply is deadly locked.	Not supported
Current-limiting protection	No power is supplied because the power supply is deadly locked.	Not supported
Overheat protection	No power is supplied.	Restoring power supply after the temperature decreases

NOTE:

When a power supply is deadly locked, it does not support the auto-recovery function. Follow these procedures to restore the device:

- Disconnect the power cord from the power source.
- Unplug the power cord from the power supply and then insert it again.
- Connect the power cord to the power source and restart the device.

In case of overheat protection, take measures to decrease the temperature of the device. The power supply recovers after the temperature falls.

Specifications

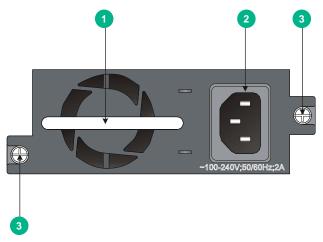
Table 3 Specifications

Item	Specifications
Rated voltage range	PSR150-A/PSR150-A1(JD362A/JD362B): 100 VAC to 240 VAC @ 50 Hz or 60 Hz PSR150-D/PSR150-D1(JD366A/JD366B): -48 VDC to -60 VDC
Max voltage range	PSR150-A/PSR150-A1(JD362A/JD362B): 90 VAC to 264 VAC @ 47 Hz to 63 Hz PSR150-D/PSR150-D1(JD366A/JD366B): –36 VDC to –72 VDC
Output voltage	12 V
Max output current	12.5 A
Max output power	150 W

Item	Specifications
Dimensions (H x W x D)	41.1 × 101.6 × 177 mm (1.62 × 4.00 × 6.97 in)
Operating temperature	−5°C to +55°C (25°F to 131°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)

Panel

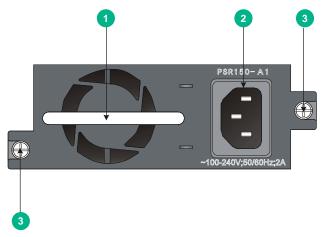
Figure 1 Panel of the PSR150-A(JD362A)



(1) Power supply handle (2)	AC receptacle

- (1) Power supply handle (2) AC receptacle
- (3) Captive screws

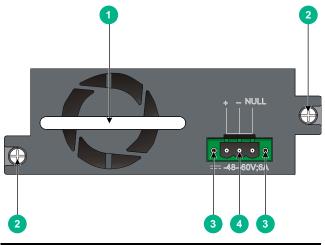
Figure 2 Panel of the PSR150-A1(JD362B)



- (1) Power supply handle
- (2) AC receptacle

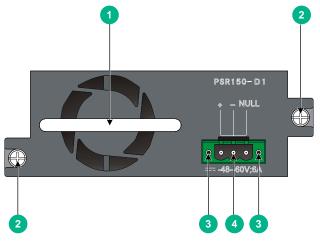
(3) Captive screws

Figure 3 Panel of the PSR150-D(JD366A)



(1) Power supply handle	(2) Captive screws
(3) Screw holes of the plug	(4) DC power receptacle

Figure 4 Panel of the PSR150-D1(JD366B)



(1) Power supply handle	(2) Captive screw
(3) Screw holes of the plug	(4) DC power receptacle

Installing and removing the power supply

This chapter describes how to install and remove the power supply and the power cord. To prevent damage to the device and personal injury, follow the installation and removal procedures illustrated in Figure 5 and Figure 6, respectively.

Figure 5 Installation procedure

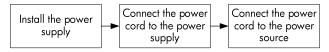
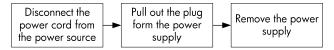


Figure 6 Removal procedure



Precautions

When installing and removing a power supply, follow these quidelines:

- Wear an ESD-preventive wrist strap and make sure the wrist strap makes good skin contact.
- Make sure the operating voltage provided by the power source is consistent with that marked on the power supply, and the output voltage of the power supply is consistent with the powered device, preventing damage to the power supply and powered device.

- Do not touch any naked wire or terminal. Doing so may result in a personal injury.
- Never place the power supply in wet locations and prevent fluid from leaking into the power supply.
- Do not often open the shell of the power supply to prevent damage to the power supply. If a failure occurs on the internal wires or units, contact the technical stuff to troubleshoot the problem.

Tools

Prepare the following tools for installation and removal:

- Flat-blade screwdriver
- Phillips screwdriver
- ESD-preventive wrist strap

Installing and removing the power supply



CAUTION:

Before installation and removal, make sure no power cord is connected to the power supply.

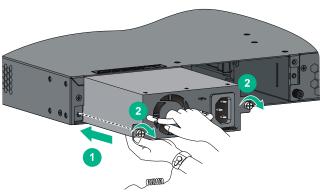
The installation/removal procedures of the PSR150-A, PSR150-A1, PSR150-D, and PSR150-D1(JD362A, JD362B, JD366A, or JD366B) are similar. This document takes the PSR150-A(JD362A) as an example to describe the installation and removal of the power supply.

Installing the power supply

- Wear an ESD-preventive wrist strap, and make sure the wrist strap makes good skin contact and is well grounded.
- Unpack the power supply and verify that the input mode of the power supply is as required.

- **3.** Face the slot where the power supply is to be installed.
- 4. Insert the power supply with the upside up (if you insert it with the upside down, the insertion is not smooth because of the specific structure design of the power supply and slot). Grasping the handle of the power supply with one hand and supporting the power supply bottom with the other, slide the supply slowly along the guide rails into the slot (see callout 1 in Figure 7).
- Fasten the captive screws on the power supply with a Phillips screwdriver until the power supply seats into the chassis (see callout 2 in Figure 7).

Figure 7 Installing a power supply



NOTE:

- If the slot has a filler module, remove it before inserting the power supply.
- To prevent damage to the power supply or the connector on the backplane of the powered device, insert the power supply gently. If you encounter a hard resistance while inserting the power supply, pull out the power supply and then insert it again.
- If the captive screw cannot be tightly fastened, examine the installation of the power supply.

Removing the power supply

- 1. Wear an ESD-preventive wrist strap, and make sure the wrist strap makes good skin contact and is well grounded.
- Disconnect the power cord from the power supply and the external power supply.
- 3. Face the power supply to be removed from the powered device.
- Loosen the captive screws on the power supply with a Phillips screwdriver until the captive screws are disengaged from the powered device.
- Grasping the handle of the power supply with one hand, pull it part way out. Then supporting the power supply bottom with the other hand, pull the power supply slowly along the guide rails out of the slot.
 - Put the power supply into an antistatic bag after removal.

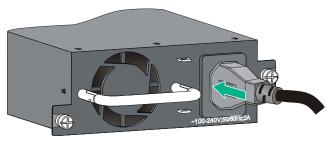
Connecting the power cord

After you insert the power supply into the device, you can connect the power cord. For an AC-powered device, use an AC power cord to connect the power source; for a DC-powered device, use a DC power cord to connect the power source.

Connecting an AC power cord

- 1. Connect one end of the AC power cord shipped with the device to the AC receptacle on the power supply (see Figure 8).
- Connect the other end of the AC power cord to the power source.

Figure 8 Connecting an AC power cord



Connecting the DC power cord

△ CAUTION:

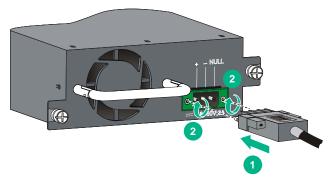
The power cord color code scheme in Figure 9 is for illustration only. The cable delivered for your country or region might use a different color scheme. When you connect a power cord, always identify the polarity symbol on its wires.

To connect the DC power cord:

 Insert the DC connector into the DC power receptacle. See callout 1 inFigure 9.

- The connector of the DC power cord and the DC power receptacle are foolproof. Make sure the connector is correctly oriented
- Use a flat-blade screwdriver to fasten the two screws on the DC plug to secure the plug to the DC receptacle (see callout 2 inFigure 9).
- Connect the other ends of the wires to the DC power source wiring terminals, with the negative wire (- or L-) to the negative terminal (-) and the positive wire (+ or M/N) to the positive terminal (+).

Figure 9 Connecting the DC power cord



Document conventions and icons

Conventions

This section describes the conventions used in the documentation.

Port numbering in examples

The port numbers in this document are for illustration only and might be unavailable on your device.

Command conventions

Convention	Description
Boldface	Bold text represents commands and keywords that you enter literally as shown.
Italic	Italic text represents arguments that you replace with actual values.
[]	Square brackets enclose syntax choices (keywords or arguments) that are optional.
{x y }	Braces enclose a set of required syntax choices separated by vertical bars, from which you select one.
[x y]	Square brackets enclose a set of optional syntax choices separated by vertical bars, from which you select one or none.
{ x y } *	Asterisk marked braces enclose a set of required syntax choices separated by vertical bars, from which you select at least one.

Convention	Description
[x y]*	Asterisk marked square brackets enclose optional syntax choices separated by vertical bars, from which you select one choice, multiple choices, or none.
&<1-n>	The argument or keyword and argument combination before the ampersand (&) sign can be entered 1 to n times.
#	A line that starts with a pound (#) sign is comments.

GUI conventions

Convention	Description
Boldface	Window names, button names, field names, and menu items are in Boldface. For example, the New User window appears; click OK .
>	Multi-level menus are separated by angle brackets. For example, File > Create > Folder .

Symbols

Convention	Description
⚠ WARNING!	An alert that calls attention to important information that if not understood or followed can result in personal injury.
△ CAUTION:	An alert that calls attention to important information that if not understood or followed can result in data loss, data corruption, or damage to hardware or software.

Convention	Description
! IMPORTANT:	An alert that calls attention to essential information.
NOTE:	An alert that contains additional or supplementary information.
Q TIP:	An alert that provides helpful information.

Network topology icons

Convention	Description
	Represents a generic network device, such as a router, switch, or firewall.
ROUTER	Represents a routing-capable device, such as a router or Layer 3 switch.
SWITCH SWITCH	Represents a generic switch, such as a Layer 2 or Layer 3 switch, or a router that supports Layer 2 forwarding and other Layer 2 features.
	Represents an access controller, a unified wired-WLAN module, or the access controller engine on a unified wired-WLAN switch.
(0,0)	Represents an access point.
T·))	Represents a wireless terminator unit.

Convention	Description
(10)	Represents a wireless terminator.
	Represents a mesh access point.
1)))))	Represents omnidirectional signals.
7_	Represents directional signals.
	Represents a security product, such as a firewall, UTM, multiservice security gateway, or load balancing device.
	Represents a security card, such as a firewall, load balancing, NetStream, SSL VPN, IPS, or ACG card.

Support and other resources

Accessing Hewlett Packard Enterprise Support

 For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:

www.hpe.com/assistance

 To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

www.hpe.com/support/hpesc

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates, go to either of the following:

 Hewlett Packard Enterprise Support Center Get connected with updates page:

www.hpe.com/support/e-updates

Software Depot website:

www.hpe.com/support/softwaredepot

 To view and update your entitlements, and to link your contracts, Care Packs, and warranties with your profile, go to the Hewlett Packard Enterprise Support Center More Information on Access to Support Materials page:

www.hpe.com/support/AccessToSupportMaterials

MPORTANT:

Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HP Passport set up with relevant entitlements.

Websites

Website	Link
Networking websites	
Hewlett Packard Enterprise Networking Information Library	www.hpe.com/networking/reso urcefinder
Hewlett Packard Enterprise Networking website	www.hpe.com/info/networking
Hewlett Packard Enterprise Networking My Support	www.hpe.com/networking/sup port

Website	Link
General websites	
Hewlett Packard Enterprise Information Library	www.hpe.com/info/enterprise/ docs
Hewlett Packard Enterprise Support Center	www.hpe.com/support/hpesc
Contact Hewlett Packard Enterprise Worldwide	www.hpe.com/assistance
Subscription Service/Support Alerts	www.hpe.com/support/e-updat es
Software Depot	www.hpe.com/support/softwar edepot
Customer Self Repair (not applicable to all devices)	www.hpe.com/support/selfrep air
Insight Remote Support (not applicable to all devices)	www.hpe.com/info/insightremo tesupport/docs

Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

www.hpe.com/support/selfrepair

Remote support

Remote support is available with supported devices as part of your warranty, Care Pack Service, or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

For more information and device support details, go to the following website:

www.hpe.com/info/insightremotesupport/docs

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