Technical Specifications

Input Power

ACPS-17HS _____ 100-120/200-240V AC
_____ 50-60Hz, 2A
DCPS-17HS _____ 48V DC, 4.9A

Weight

ACPS-17HS _____ 3.25 lb
DCPS-17HS _____ 3 lb

Environmental

Operating Temperature _____ 0º to 50º C
Storage Temperature _____ -30º to 70º C
Relative Humidity _____ 5% to 95% non-condensing
Dimensions _____ 7.5"L x 7"W x 3.5"H
_____ (19.1cm L x 17.8cm W x 8.9cm H)

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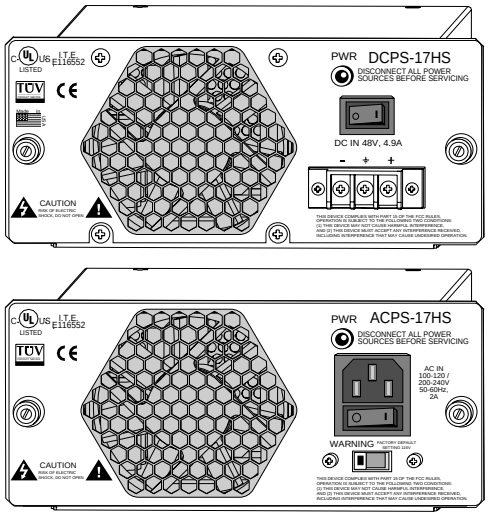
Radiance R5000 Power Supply



Installation and User Guide

Models: ACPS-17HS / DCPS-17HS

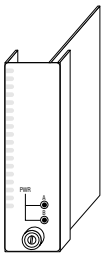
Operating Features of the Power Supply

The ACPS-17HS and DCPS-17HS load-sharing power supplies are designed for AC and DC power sources, respectively. Both power supplies are field-replaceable.

When two power supplies are installed in the Radiance R5000 Central Service Platform, they operate in tandem and share the load. If the power source to one of the supplies fails or is removed, the other power supply automatically provides the entire power load to the platform. This setup provides both the platform and the network with uninterrupted service. It also decreases the demand placed upon an individual power supply, thus prolonging its life.

When the power (PWR) LED on the front panel of the power supply is lit, it indicates that the power supply is turned on, connected to an active power source, and providing power to the platform's backplane. Because they are load-sharing, when two power supplies are installed and active in a single platform, the LEDs on both supplies are lit simultaneously.

An optional display card is available for visible verification of operating status from the front of the platform. The R500-D, which must be installed in slot 16 or 17, provides two LEDs labeled A and B. When lit, these LEDs indicate that their corresponding power supplies are installed properly, connected to an active power source, turned on, and providing power to the platform's backplane. When two power supplies are installed and active in a single platform, both LEDs are lit simultaneously.



R500-D Front Panel Display Card

Installing the Power Supply

Follow the steps outlined below to install the ACPS-17HS or DCPS-17HS power supply in the Radiance R5000 Central Service Platform.

IMPORTANT

Disconnect all power sources before installing or removing the power supply.
A blank panel must remain installed in any empty power supply slot.
Do not apply power to the power supply while it is out of the platform.

1. Remove the blank panel from the back of the platform.
2. Insert the power supply into the slot. Do not force it into the platform unnecessarily. It should slide in easily and evenly.
3. Push gently until the face panel is flush with the platform.
4. Turn the thumb screws clockwise and tighten to secure the power supply into the platform.

Applying Power

DC Power Supply (DCPS-17HS)

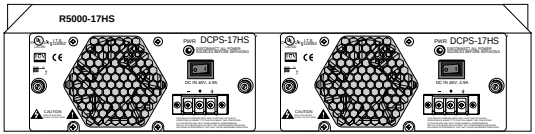
For DC power supply connections, follow these guidelines:

- Make sure the power switch is in the OFF position (O).
- Remove the plastic safety cover to expose the terminals.
- Connect the wire leads to the appropriate terminals. There is one each for a positive, a negative and a platform ground. To make a connection, loosen the terminal screw, insert the exposed wire, then tighten the screw. If two power supplies have been installed, connect each power supply to a separate power source.
- Replace the plastic safety cover over the terminal block.
- Set the power switch to the ON position (I).
- Verify proper connection and operation via the power (PWR) LED on the power supply front panel. The LED is lit when the power supply is functioning correctly.

Important: *The terminal block safety cover must be installed when power is present to prevent burn or energy hazards.*

Caution: *A fully loaded platform is rated for 4.9A DC maximum current. Make sure that the power supply current available is sufficient to power the platform. Refer to front panel text for voltage/current ratings. The center terminal connector provides grounding for the platform and must be maintained. Particular attention should be given to power supply connections other than direct connections to the branch circuit (e.g. use of power strips).*

Note: *The DCPS-17HS is designed to protect against overheating. The power supply will go into thermal shut-down mode if it is operated above the specified temperature of 50°C. Normal operation can be reestablished once the temperature drops to the specified range by power cycling the unit.*



AC Power Supply (ACPS-17HS)

The ACPS-17HS includes a standard North American 3-pin power cord which is UL (USA), CSA or CUL (Canada) listed or approved. For installation in regions outside North America, replace the power cord with a cord approved by appropriate safety agencies. The cord must have a CEE-22 standard V female connector on one end and meet IEC 320-030 specifications. European power cords must be harmonized and designated with a HAR marking on the outside of the cord jacket to comply with the CENELEC Harmonized Document HD-21.

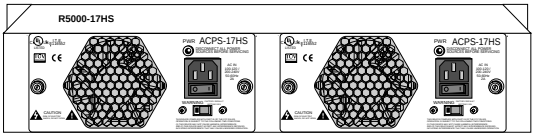
WARNING

The default voltage setting on the ACPS-17HS is 115V AC. Before applying power, make sure the voltage switch is set appropriately for the voltage source in your region.

For AC power supply connections, follow these guidelines:

- Make sure the power switch is in the OFF position (O).
- Plug the AC cord into the connector on the power supply, then insert the other end of the cord into the AC power source. If two power supplies have been installed, connect each power supply to a separate power source.
- Set the power switch to the ON position (I).
- Verify proper connection and operation via the power (PWR) LED on the power supply front panel. The LED is lit when the power supply is functioning correctly.

Caution: *A fully loaded platform is rated for 2A AC maximum current. Make sure that the power supply current is sufficient to power the platform. Refer to the front panel text for voltage/current ratings. Reliable grounding of rackmount equipment must be maintained. Particular attention should be given to power supply connections other than direct connections to the branch circuit (e.g. use of power strips).*



Replacing the Power Supply

To remove an ACPS-17HS or DCPS-17HS power supply from the Radiance R5000 Central Service Platform, perform the following steps.

IMPORTANT

Follow all precautions described in the box under "Installing the Power Supply."

1. Remove the power cord or wire leads from the power supply.
2. Turn the thumb screws counterclockwise to loosen the power supply from the platform.
3. Remove the power supply from the platform.
4. Install another power supply or a blank panel into the empty slot. Refer to "Installing the Power Supply" for installation instructions.