CRESTRON

Description

The Crestron® DIN-PWS50 is a 50 W Cresnet power supply module designed to snap onto a standard DIN rail for installation in a wall mount enclosure. DIN rail mounting enables modular installation alongside Crestron DIN Rail lighting and automation control modules and other third-party DIN rail mountable devices. All wiring connections are made using screw terminals positioned along the top and bottom, clearly accessible from the front for easy installation and servicing. Three Cresnet power ports are provided.

DIN-PWS50 Specifications

SPECIFICATION	DETAILS
Output Power	
Per Output Port	50 W (2.08 amps @ 24 Vdc, Regulated), limited power source
Module Total	50 W (2.08 amps @ 24 Vdc, Regulated)
Ripple/Noise	<1%
Line Power	60 W @ 100 to 240 Vac, 50/60 Hz
Enclosure	Light gray polycarbonate housing with polycarbonate label overlay, UL94 V-0 rated, 35 mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45 mm front panel cutout, occupies 6 DIN module spaces (108 mm)
Environmental	
Temperature	32°F to 104°F (0°C to 40°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	26 Btu/h
Dimensions	
Height	3.71 in (9.42 cm)
Width	4.18 in (10.60 cm)
Depth	2.29 in (5.80 cm)
Weight	6 oz (170 g)

Additional Resources

Visit the product page on the Crestron website (www.crestron.com) for additional information and the latest firmware updates. Use a QR reader application on your mobile device to scan the QR image.

Installation

WARNING: To avoid fire, shock, or death, turn off the power at the circuit breaker or fuse and test that the power is off before wiring!

CAUTION: This equipment is for indoor use only. Mount in a well-ventilated area. The ambient temperature must be 0ºC to 40ºC (32ºF to 104ºF). The relative humidity must be 10% to 90% (noncondensing).

NOTES: Observe the following points:

- Install and use the DIN-PWS50 in accordance with appropriate electrical codes and regulations.
- A licensed electrician must install the DIN-PWS50.
- When installing in an enclosure, group high-voltage devices separately from low-voltage devices.

Preparing and Connecting Wires

When making the connections, strip the ends of the wires approximately 7/16 in (11 mm). Use care to avoid nicking the conductors. Tighten the connector to 5 in-lb (0.5 to 0.6 N-m). The wire gauge should be 14 to 26 AWG.

Installing the DIN-PWS50

The DIN-PWS50 should be used in a well-ventilated area. The venting holes should not be obstructed under any circumstances.

The DIN-PWS50 is designed for installation on a DIN rail. Refer to the diagram when installing.

Installing the DIN-PWS50
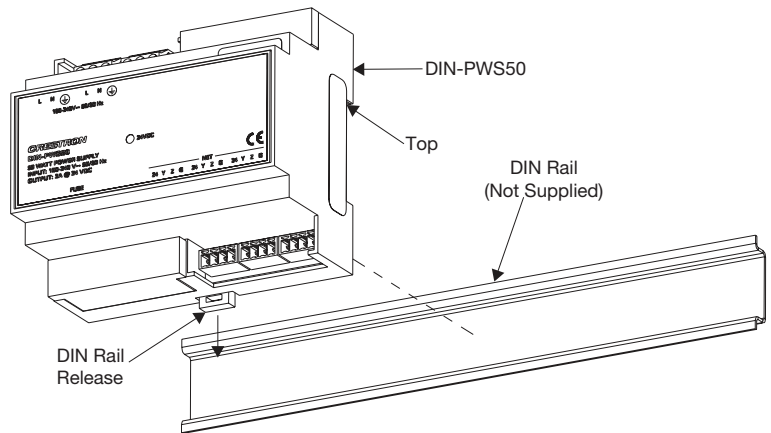
Install the DIN-PWS50:

1. Use a flat object (e.g., a flat-head screwdriver) to pull the DIN rail release downward.
2. Place the top of the DIN-PWS50's rail mount over the top of the DIN rail.
3. Tilt the bottom of the DIN-PWS50 toward the DIN rail until it snaps into place.

NOTE: When mounting DIN rail products, use a flat-head screwdriver to pull the DIN rail release tab while snapping the device onto the DIN rail.

To remove the DIN-PWS50 from the DIN rail, use a small, flat object (e.g., a flat-head screwdriver) to pull the DIN rail release, and and tilt the bottom of the DIN-PWS50 away from the DIN rail.

NOTE: Certain third-party DIN cabinets provide space for an informational label between each DIN rail row. Crestron's Engraver software (version 4.0 or later) can generate appropriate labels for all Crestron DIN rail products.

Hardware Hookup

WARNING: Prior to connecting the DIN-PWS50, turn off the power at the circuit breaker. Failure to do so may result in serious personal injury or damage to the device. Restore power after all connections have been made.
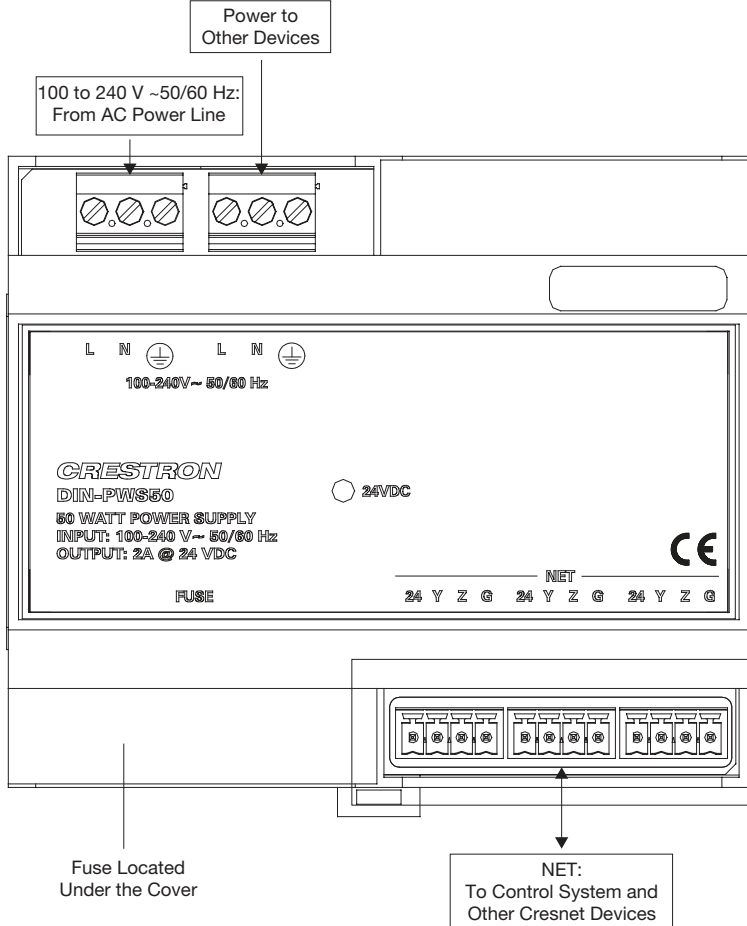
NOTE: Install the DIN-PWS50 in accordance with all local and national electric codes.

NOTE: High-voltage connections accept 2.5 mm² (12 AWG) wire. Wire should be stripped to 8 mm (1/3 in). Tighten the terminal blocks to 0.5 N-m (5 in-lbs).

NOTE: Use copper wire only. For high-voltage connections, use wires rated for at least 75°C (167°F).

NOTE: Ensure the unit is properly grounded.

Hardware Connections for the DIN-PWS50

Power to Other Devices

100 to 240 V ~50/60 Hz: From AC Power Line

L N ⏚ L N ⏚
100-240V~ 50/60 Hz

CRESTRON
DIN-PWS50
50 WATT POWER SUPPLY
INPUT: 100-240 V~ 50/60 Hz
OUTPUT: 2A @ 24 VDC

◯ 24VDC

CE

NET

FUSE   24 Y Z G   24 Y Z G   24 Y Z G

Fuse Located Under the Cover

NET:
To Control System and Other Cresnet Devices

Replacing the Fuse

If the DIN-PWS50 does not power up when it is plugged into an ac outlet, the fuse may need to be replaced. The fuse holder is located on the lower left corner of the front panel under the cover. To replace the fuse:

1. Disconnect power to the DIN-PWS50.
2. Remove the cover from the lower left corner on the front of the DIN-PWS50.
3. Remove the defective fuse from the fuse holder and replace with a new fuse.

   CAUTION: Use only time-lag type fuses, 3.15 A or 250 V. Failure to do so may cause damage to the DIN-PWS50.

4. Replace the fuse cover.
5. Connect power to the DIN-PWS50.

Troubleshooting

The following table provides corrective actions for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

DIN-PWS50 Troubleshooting

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
The 24 Vdc LED does not light.	The DIN-PWS50 is not receiving power.	Verify that the DIN-PWS50 is connected to an ac power line.
	The fuse is blown.	Replace the fuse with a T3.15AH (5 x 20 mm, 250 V, 3.15 A, time-lag, ceramic cartridge). Refer to the "Replacing the Fuse" section.
	The output is short-circuited.	Disconnect all output connectors. The LED will light if the problem was a short circuit on output.