



POWER SUPPLIES

DC POWER SUPPLY

MODEL DCP-1.5-W

DESCRIPTION

The **Model DCP-1.5-W** is a regulated 1.5A power supply that accepts 24 VAC at the input and provides 24 VDC at the output. The **Model DCP-1.5-W** can be ordered with any output voltage from 1.5 to 27 VDC. Field voltage adjustments may also be made using only a screwdriver. The power supply is provided with a mounting track for easy field application.

This low-cost power supply features good regulation and has full overcurrent protection.

FEATURES

- **Low cost**
- **Regulated DC output**
- **Snap-track mounted**
- **Screw terminals with pressure plates**
- **Adjustable DC output**
- **Full-wave rectified**

APPLICATION

In general, the output current rating will be reduced by the ratio of the output voltage divided by the input voltage. For example, a 6 VDC supply powered by a 24 VAC transformer will have a reduced-rated output current of 375 mA. $(6/24) \times 1.5 = 0.375$

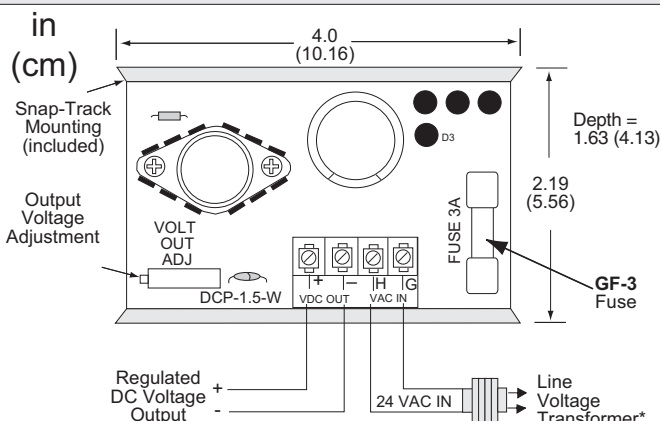
To obtain the full-rated output current at reduced output voltages, the standard power supply input voltage must be reduced. It is a good practice to maintain the same AC input voltage as the desired DC output voltage.

A grounded DC minus terminal and a grounded secondary 24 VAC input transformer will blow the unit's fuse. If this is a problem, there are three possible solutions:

- Option 1: Remove the ground on the transformer secondary to float the voltage output, or use a separate ungrounded transformer.
- Option 2: Add a Model Y65G13-0 40 VA isolation transformer. This option reduces the power supply capacity to 920 mA.
- Option 3: Remove diode D3 (marked on board). Jumper the VDC OUT (-) terminal to the VAC IN (G) terminal. The grounded side of the AC supply should be wired to the VAC IN (G) terminal. This option reduces the power supply capacity to 400 mA.



DIMENSIONS / WIRING



SPECIFICATIONS

Voltage Input	24 VAC, 50/60 Hz
Output	24 VDC (full wave rectified and regulated) adjustable 1.5-27 VDC
Output current	1.5A (with 75 VA transformer)
Regulation	1.5% at full-rated current
Temp stability	1%
Over-current protection	3A fuse (GF-3)
Mounting	Snap-track (included)
Operating conditions	32° to 130°F (0° to 55°C) 95% RH non-condensing
Dimensions	1.63"H x 2.19"W x 4.0"L (4.13 x 5.56 x 10.16 cm)
Weight	0.4 lb (0.18 kg)
Warranty	18 months

ORDERING INFORMATION

MODEL
DCP-1.5-W
DCP-1.5-W-C

DESCRIPTION
Power supply, 24 VAC IN to 24 VDC OUT
Power supply, 24 VAC IN to special DC output*
*Specify output voltage when ordering (1.5-27 VDC)