

# 24-48 VDC Power Supply Installation

## Model 77092

### Product Information

Kentrox Model 77092 DC Power Supply provides a switchable supply of 24 VDC or 48 VDC at 1.25 Amps when plugged into a commercial 115 VAC, 60Hz outlet. A maximum of 12 T-SERV II CSUs or 8 T-SMART CSUs can be powered in a Kentrox CSU Shelf, when using the 48 VDC option. Refer to the Kentrox Shelf Installation Instructions for specific information on connecting a single supply to the shelf.

The power supply can be mounted in a 19" or 23" computer cabinet or EIA equipment rack using the Kentrox supplied mounting bracket.

### Tools and Materials

The following additional tools and materials are required to install the Kentrox Model 77092 24/48 VDC Power Supply:

- 3/8" flat blade screwdriver
- wire strippers
- 20 AWG to 14 AWG white and black wire
- 14 AWG (or larger) green wire

The following mounting hardware is included with the Kentrox Model 77092 24-48 VDC Power Supply:

- two # 12-24 x 1/2" pan head slotted screws
- two 1/4" plastic washers

### Specifications

Electrical	
Input Voltage:	105 VAC to 130 VAC, 60Hz, ± 1Hz, single-phase, power source
Input Power:	95w maximum
Output Voltage:	Regulated, 48Vdc ± 2.0V or 24Vdc ± 1.0V, switch selectable (tolerances are at 25°C)
Output Current:	1.25A DC maximum
Maximum Output Ripple:	30mV peak-to-peak @ 25°C
Output Polarity:	Floating, either side (+ or -) can be grounded

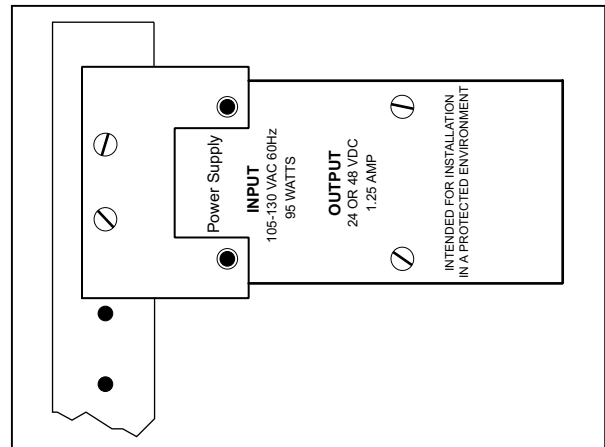
Environmental	
Operating Temperature Range:	0°C to 50°C
Safety / EMI	
Recognized to UL 1459 CSA Certified, file# LR 49668 Complies with FCC Part 15	
Mechanical	
Weight:	6.6 lbs.
Height, excluding mounting bracket:	5.5"
Width, excluding mounting bracket:	2.75"
Depth, excluding fuse holder, terminal block and power cord protrusions:	6.65"
Mounting:	Factory installed bracket allows for 19" or 23" computer or EIA rack mounting

### Mechanical Installation

- ▶ **Note:** All wiring external to the unit must follow the provisions of the current edition of the National Electrical Code.

Mount the power supply into either a 19" or 23" rack as shown in [Figure 1](#) using two #12-24 pan head slotted screws with two 1/4" plastic washers.

Figure 1. Typical Power Supply Rack Mount (Front View)



## Electrical Installation



**Warning:** Make sure the AC power cord is disconnected while making power connections to the power supply.

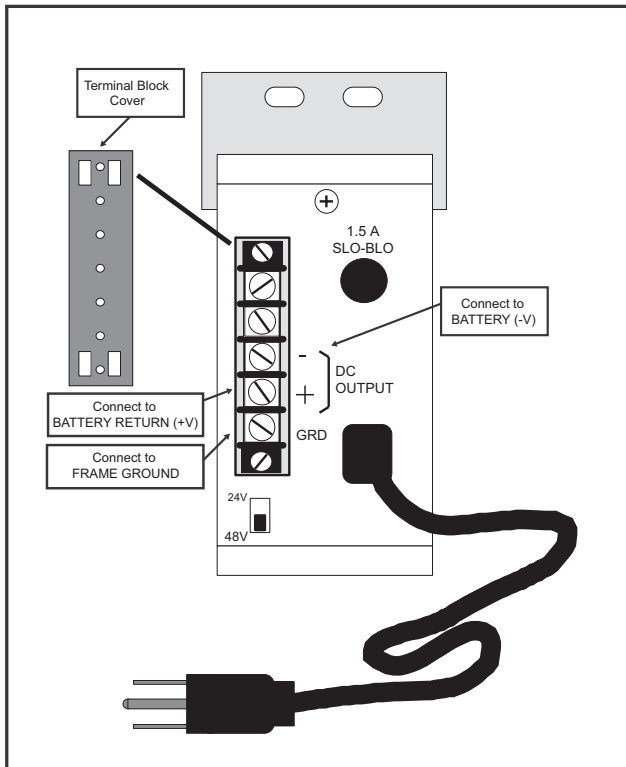
The power plug is the disconnect device. If the disconnect device is not easily accessible after installation, one must be incorporated into the installation wiring.

Select 3 equal lengths of white, black and green wire, with the wire length based on the distance from the power supply to the shelf to be powered.

Make the connections to the Kentrox Model 77092 Power Supply according to the following instructions (refer to [Figure 2](#) for all steps):

1. Snap off the terminal block cover.
2. Connect the white wire to the terminal block screw lug marked “-.”
3. Connect the black wire to the terminal block screw lug marked “+.”
4. Connect the green wire to the terminal block screw lug marked “GRD.”
5. Snap on the terminal block cover.

**Figure 2. Model 77092 Power Supply (Back View)**



Route the three wires to the Kentrox CSU shelf to be powered. Make the following connections to the shelf (refer to [Figure 2](#) for all steps):

1. Connect the green wire to **FRAME GROUND**.
2. Connect the white wire to **BATTERY (-V)**.
3. Connect the black wire to **BATTERY RETURN (+V)**.

► **Note:** For the 12-slot shelf, the posts labeled “A” power the even numbered slots and posts labeled “B” power the odd number slots. To power all of the slots in a shelf, connect power to the “A” posts, then jumper to the “B” posts.

For more information on connecting power to CSU shelves, please refer to the *12-Slot Shelf Installation Practice*, which is available on the Kentrox Web site at [www.kentrox.com/library](http://www.kentrox.com/library).



**Caution:** Ensure the 24/48V switch is in the 48V position before applying power to a Kentrox CSU shelf. Refer to Figure 2 for the correct switch configuration.

Plug the AC power cord into a grounded 115 VAC, 60Hz outlet. 48 VDC should now be applied to the CSU shelf.

## Who to Call for Assistance

If you need assistance with this product or have questions not answered by this document, please visit our Support page on the Kentrox Web site. You are also welcome to call or send email to our Technical Assistance Center.

800-733-5511 (continental USA only)

503-350-6001

email: [support@kentrox.com](mailto:support@kentrox.com)

<http://www.kentrox.com/support>

## Revision History

Part #	Date	Issue Number
500183	November 2001	Issue 3
650-00211-00	April 2005	Issue 4

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