

# S320-B/S600-24-B

## INSTALLATION GUIDE

### Included Items:

- Power Supply Unit x 1
- 4" Bolts x 2
- Washers x 2
- Nylon Locknuts x 2
- Instructions x 1

### Required Items:

- Phillips Head Screwdriver
- 7/8" (20mm) Wrench or Socket

### Optional Items:

- 1/4" Bolts or Screws (for Wall Mounting)
- Rack Mount Screws x 4 (for Rack Mounting)

## CAUTION

RISK OF ELECTRIC SHOCK, DO NOT DISASSEMBLE

TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT DISASSEMBLE  
NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

1. Before any installation or maintenance work, please disconnect your system from the utility. Ensure that it can't be reconnected inadvertently!
2. Installation and service should be done by qualified personnel only. All work should conform to local codes.
3. Using replacement parts and/or accessories not approved of by Clinton Electronics may void warranty.
4. Mount the unit in an area that cannot be easily accessed by non-qualified personnel.
5. Do not install power supplies in places with high moisture or near water.
6. Do not install power supplies in places with high ambient temperature or near fire source.

7. Do not "daisy chain" power runs to monitors. All power runs from each display must go directly to the Power Supply.

#### Cable Guideline:

In most cases the CE-S320-B can safely power multiple LCDs and/or PVMs up to 240 Watts, the CE-S600-24-B can safely power multiple LCDs and/or PVMs up to 450 Watts. For best results, use only high-quality 18 gauge cable or larger.

As a guide the reference charts to the right can help determine what cable to use.

When powering multiple LCDs or PVMs from a single Power Supply, it is recommended that cable lengths be grouped for similar run lengths to better maintain consistent voltage levels at the respective monitors.

For a .8A M8S, M8SD & M10S with CE-S320-B / CE-S600-24-B adjusted at 27 Volts DC

Gauge AWG	Voltage drop per 100 ft	Max. Cable length (7 volt drop)
18	1.08 Volts	650 feet
16	.7 Volts	1000 feet

For a 2.1A M19S with CE-S320-B / CE-S600-24-B adjusted at 27 Volts DC

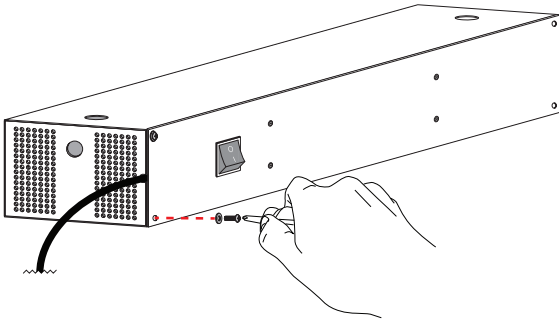
Gauge AWG	Voltage drop per 100 ft	Max. Cable length (7 volt drop)
18	2.7 Volts	260 feet
16	1.7 Volts	410 feet
14	1.05 Volts	666 feet

For a 2.5A M26S & M32S with CE-S320-B / CE-S600-24-B adjusted at 27 Volts DC

Gauge AWG	Voltage drop per 100 ft	Max. Cable length (7 volt drop)
18	3.17 Volts	224 feet
16	2 Volts	350 feet
14	1.25 Volts	560 feet

### 1. REMOVE COVER PLATE

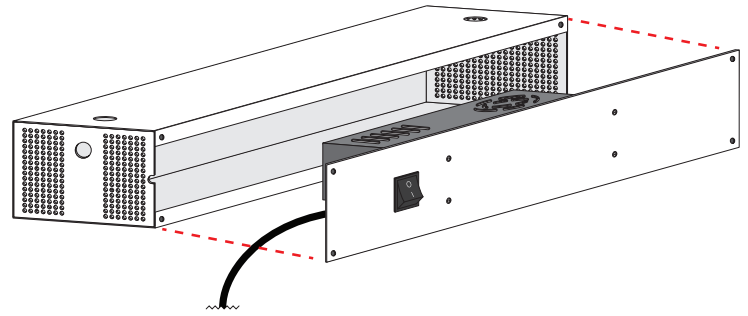
Remove the four screws from the corners of the cover plate. Set the screws aside and save for Truss Mount and Wall Mount applications.



\*S320-B shown

### 2. RACK MOUNT

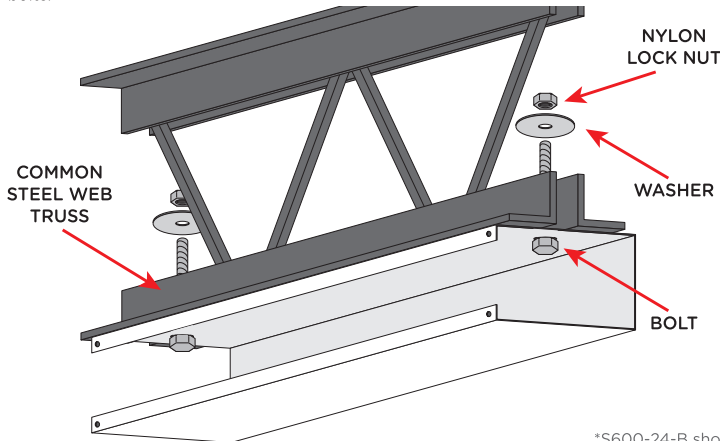
Pull the front cover assembly away from the chassis and proceed to the wiring instructions. The chassis will not be used for Rack Mount applications.



\*S320-B shown

### 3. TRUSS MOUNT

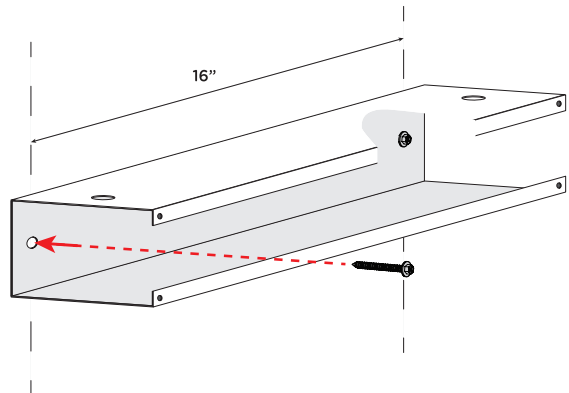
Insert the 2 supplied bolts through the holes in the top of the chassis. Place the chassis under the truss, positioning the ends of the bolts through the open slot in the truss. Place the supplied washers over the bolts, then place and tighten the supplied nylon lock nuts on the bolts.



\*S600-24-B shown

### 4. WALL MOUNT

Remove the cover plate assembly as detailed in the Rack Mount instructions. Place the chassis against the wall. Fasten to the wall using sufficient length 1/4" bolts or screws, preferably into studs.

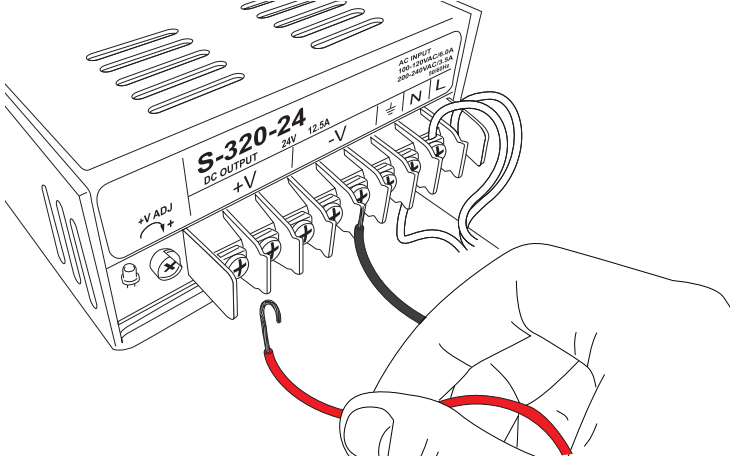


You may wish to mark the holes (located 16" on center) with a pencil, then remove chassis from wall and drill pilot holes.

\*S600-24-B shown

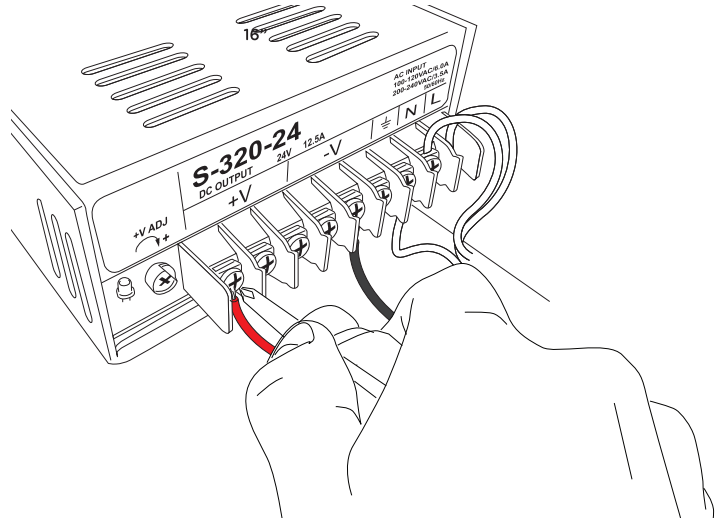
## 5. WIRING

a. Remove the clear plastic cover protecting the terminal block, and set aside. Connect cables from monitor to appropriate terminal; the power supply is labeled **+V** for positive and **-V** for negative. Be sure to maintain proper polarity, otherwise displays may be damaged or not function correctly.



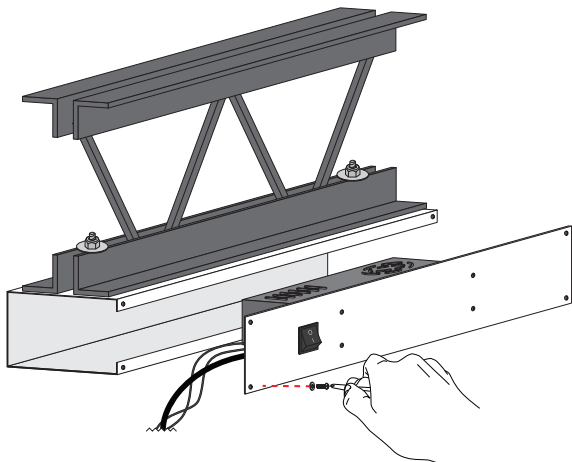
On S320-B models the wires should be routed through the hole on the side of the chassis (if mounting to a Truss or Wall).

b. Tighten the terminal screws with a Phillips head screwdriver. Reattach the clear plastic cover over the terminal block.



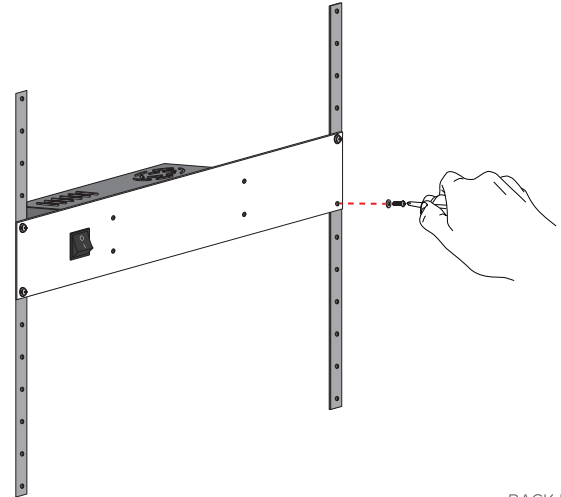
## 6. REASSEMBLE

a. Once wiring is complete, install the power supply cover plate assembly to the chassis if being Truss or Wall Mounted with the 4 screws that were removed in step 1. After the power supply is reassembled, plug in the 110 volt plug and turn the main rocker switch 'ON'.



TRUSS MOUNT

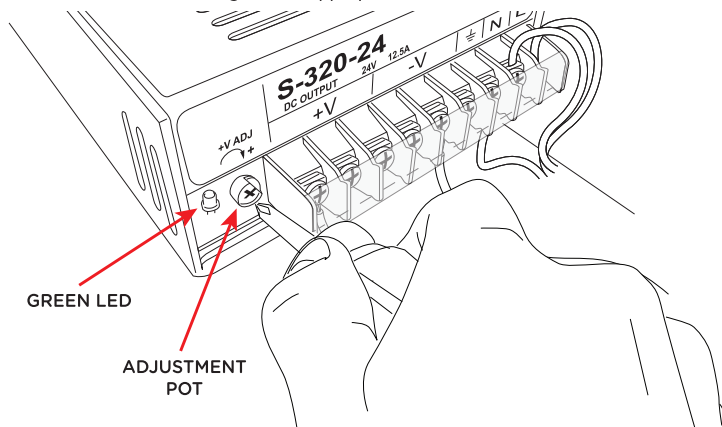
b. If Rack Mounting, install the power supply cover plate assembly to the rack with rack-mount screws, (not included). After the power supply is reassembled, plug in the 110 volt plug and turn the main rocker switch 'ON'.



RACK MOUNT

## 7. ADJUSTMENTS

There is a voltage adjustment pot adjacent to the terminal block that allows the voltage to be adjusted from 20-27 volts DC. The output is factory set at 24 volts, which is the recommended setting for minimum stress on the power supply and display. If you do not have enough voltage to the display, use a Phillips head screwdriver to gently turn the pot clockwise to increase voltage to the appropriate level.



It is recommended to disconnect the power supply from power source prior to making adjustments to voltage.

## 8. TROUBLESHOOTING

### No power at monitor:

- Ensure Power Supply is connected to live AC outlet and switch is on.
- Check the connections of the cables at the terminal block.
- Check the green LED on the Power Supply, located next to the terminal block. If LED is flashing there is a short in the wiring or it is cross wired.

### Monitor has power, but doesn't function properly:

- Insufficient voltage at monitor. Often caused by long cable runs, "daisy chaining" cable runs, or too small of gauge of wire. Adjust +V ADJ pot on Power Supply clockwise until display functions properly. (see step 7. ADJUSTMENT) If this does not remedy the problem, rewiring may be required.

### Monitor has no image:

- Check LED on front of monitor, if green the display is powered and receiving the correct signal.
- If LED is amber or flashing the display is receiving power, but not a proper video signal or the video input selector on the display is not set to the proper setting. Select proper input on display.
- If LED is not lit, check power switch on display. If still not lit, unit is not receiving proper power. Check polarity of DC power to ensure this is correct. The internal pin of the connector is positive and the outer barrel is negative. Checking voltage at connector must be done with a load. You will not get an accurate voltage measurement if not connected to the display when measuring, due to the voltage drop of the cabling.