

VERTILINE

VertiLine3DV Series

Rack Mount Power Supplies

Models Include:

VertiLine3DV

- 12VDC @ 8A
- Eight (8) PTC protected outputs

VertiLine6DV

- 24VDC @ 8A
- Eight (8) PTC protected outputs

Installation Guide



Rev. 090111



More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix VertiLine Rack Mount Power Supplies provide eight (8) filtered and electronically regulated power outputs in a space saving 1U EIA 19" rack mount chassis. The units are available with either 12VDC or 24VDC power outputs. VertiLine Rack Mount Power Supplies are also available in sixteen (16) outputs.

Specifications:

Agency Listing:

- CE European Conformity.

Input:

- 220VAC (working range 190VAC - 256VAC), 50/60Hz.

Output:

VertiLine3DV:

- Eight (8) PTC protected 12VDC outputs rated @ 8A total current max. (1.0A per device, 2.5A max.).

VertiLine6DV:

- Eight (8) PTC protected 24VDC outputs rated @ 8A total current max. (1.0A per device, 2.5A max.).
- Filtered and electronically regulated outputs.

Features:

- Eight (8) power LED indicators.
- Illuminated master power disconnect circuit breaker with manual reset.
- IEC 320 - 3-wire grounded line cord (detachable).
- Removable terminal blocks with locking screw flange.

Mechanical:

- Units can be rack, wall or shelf mounted.
- Modular 1U standard EIA 19" rack mount chassis.
- Enclosure Dimensions (H x W x D approx.): 1.625" x 19.125" x 8.5" (41.3mm x 486mm x 216mm).

Eight (8) Output Rack Mount Configuration Reference Chart:

| Altronix Model Number | Output Voltage | Total Output Current (Power) | Number of Outputs | Output Protection | Current (max. per output) | 220VAC 50/60Hz Input Current |
|-----------------------|----------------|------------------------------|-------------------|-------------------|---------------------------|------------------------------|
| VertiLine3DV | 12VDC | 8A | 8 | PTC | 2.5A | 0.75A |
| VertiLine6DV | 24VDC | 8A | 8 | PTC | 2.5A | 1.75A |

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to the National Electrical Code and all local codes.

Installation Instructions:

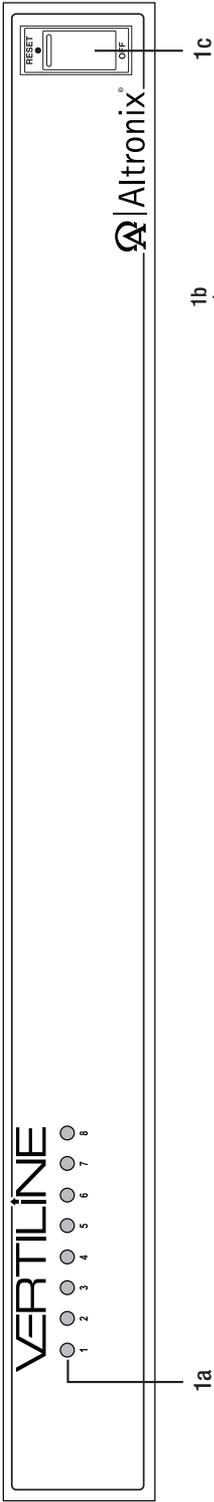
1. Attach mounting brackets to VertiLine unit for desired rack or wall mount installation (*Figs. 4-5, pg. 7*). Affix rubber pads to VertiLine for shelf installation (*Fig. 6, pg. 7*).
2. Secure the unit into rack, mount unit to wall or place unit on a shelf as desired (unit should be spaced at least 3" from any video monitors). When installing the unit in a rack, allow for one half U spacing above the unit for ventilation.
3. Insert and secure removable terminal blocks to unit (*Fig. 1e, pg. 4*).
4. Plug the grounded AC line cord (included) into the IEC 320 connector of the VertiLine unit (*Fig. 1d, pg. 4*). Insert the plug end of the line cord into a grounded AC receptacle.
5. Set illuminated master power disconnect circuit breaker to the (ON) position (*Fig. 1c, pg. 4*).
6. Measure output voltage before connecting devices. This helps avoiding potential damage.
7. Set illuminated master power disconnect circuit breaker to the (OFF) position (*Fig. 1c, pg. 4*).
8. Connect the power output of terminals marked [+ 1 -] to the power input of device (*Fig. 1b, pg. 4*). Repeat this step for each additional device (Outputs 2-8).
9. Upon completion of wiring, set illuminated master power disconnect circuit breaker to the ON (RESET) position (*Fig. 1c, pg. 4*).
10. The power LEDs on the faceplate for Outputs 1-8 will illuminate when AC power is present (*Fig. 1a, pg. 4*).

Note: If any of the power LEDs are not illuminated the cause may be due to the following:

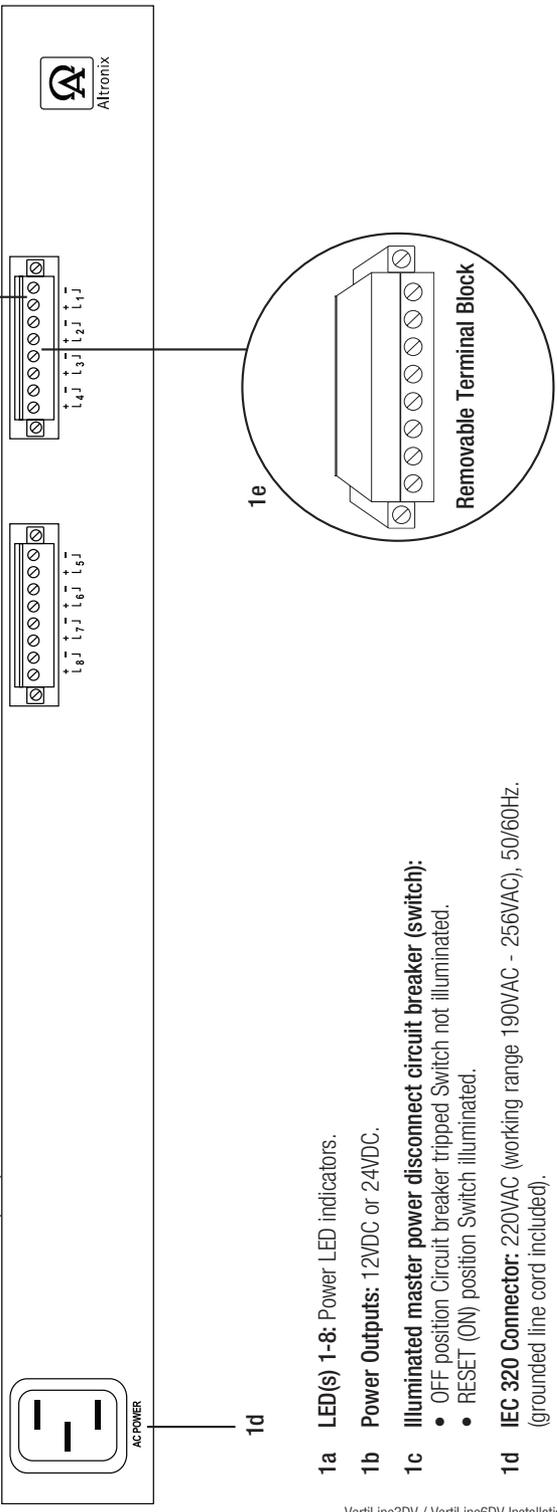
- a. AC mains fail.
- b. Illuminated master power disconnect circuit breaker is OFF or tripped.
- c. One (1) or more power output PTCs are tripped due to a short circuit or overload condition.
To reset the PTC:
 1. Set illuminated master power disconnect circuit breaker to the (OFF) position (*Fig. 1c, pg. 4*).
 2. Eliminate the trouble condition (short circuit or overload).
 3. Allow 1 minute for PTC to cool off (reset).
 4. Set illuminated master power disconnect circuit breaker to the (ON) position (*Fig. 1c, pg. 4*).
 5. All power LEDs will illuminate indicating power has been restored to all outputs (*Fig. 1a, pg. 4*).

Fig. 1

VertiLine3DV and VertiLine6DV (front)



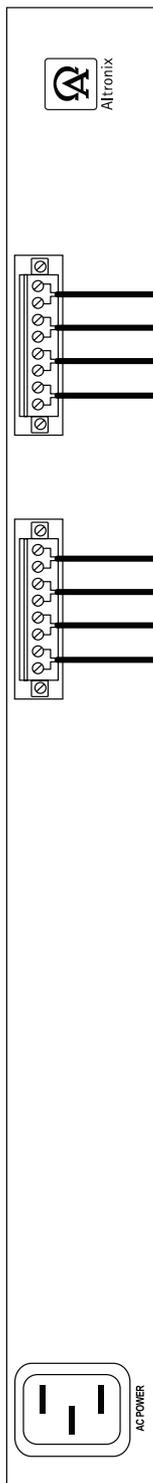
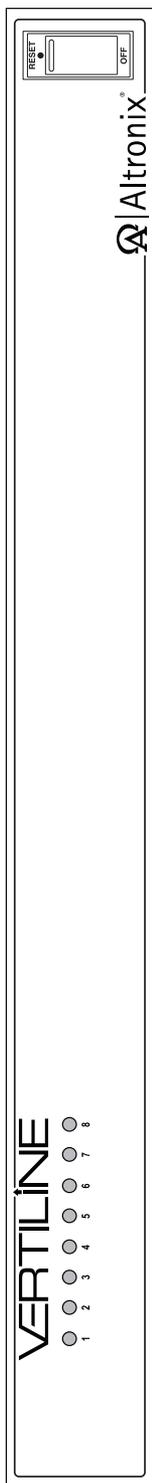
VertiLine3DV and VertiLine6DV (rear)



- 1a LED(s) 1-8: Power LED indicators.
- 1b Power Outputs: 12VDC or 24VDC.
- 1c Illuminated master power disconnect circuit breaker (switch):
 - OFF position Circuit breaker tripped Switch not illuminated.
 - RESET (ON) position Switch illuminated.
- 1d IEC 320 Connector: 220VAC (working range 190VAC - 256VAC), 50/60HZ. (grounded line cord included).
- 1e Removable Terminal Block.

Typical Application Drawing:

Fig. 2



12VDC (VertiLine3DV)
or 24VDC (VertiLine6DV)
Power Outputs to Devices



The lightning flash with arrow head symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

1U EIA 19" Rack Mount Chassis Mechanical Drawing and Dimensions (H x W x D): 1.625" x 19.125" x 8.5" (41.3mm x 486mm x 216mm)

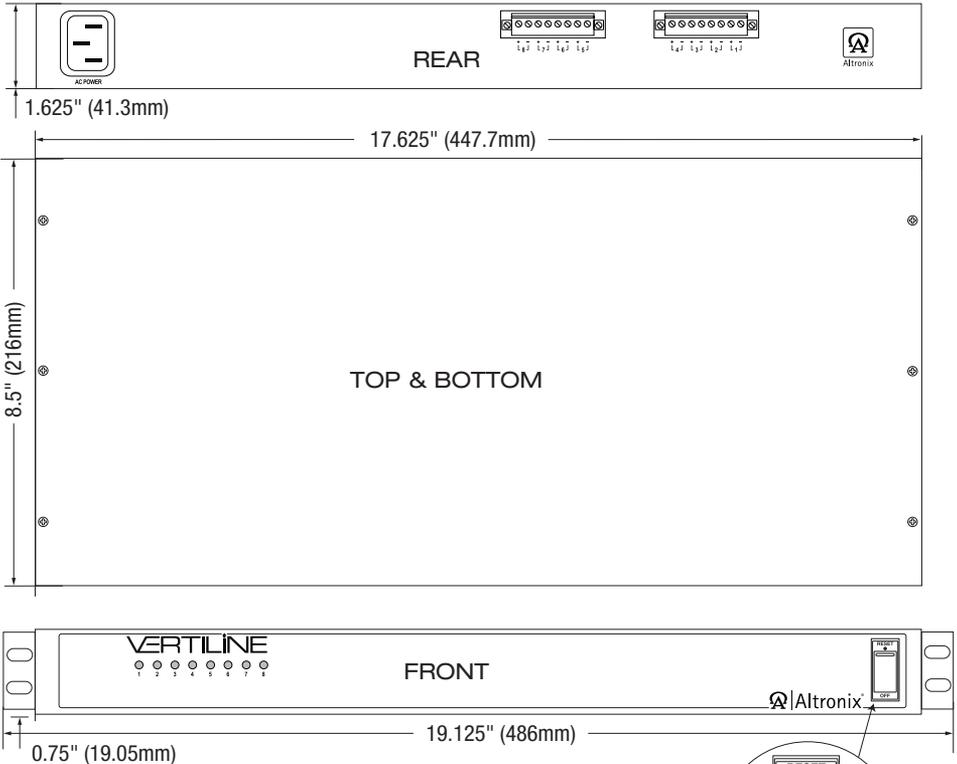


Fig. 3

Power switch with built-in circuit breaker:

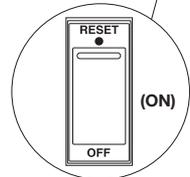
OFF position - Switch not illuminated. Outputs not powered.

RESET (ON) position - Switch illuminated. Outputs powered.

Circuit breaker tripped - Switch not illuminated.

Power LEDs on faceplate are not illuminated. Outputs not powered.

To reset circuit breaker set power switch to the ON (RESET) position (*Fig. 3, pg. 6*).



Mounting Options:

Rack Mount Installation

1. Remove factory installed screws from both sides of the rack chassis (Fig. 4a).
2. Install mounting brackets (A) on the left and right side of rack chassis using the two (2) flat head screws (B) (included) (Fig. 4b).
3. Place unit into desired EIA 19" rack position and secure with mounting screws (not included) (Fig. 4c).

Fig. 4

Fig. 4a

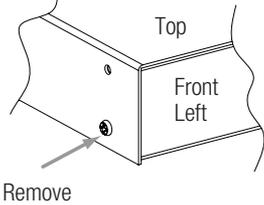


Fig. 4b

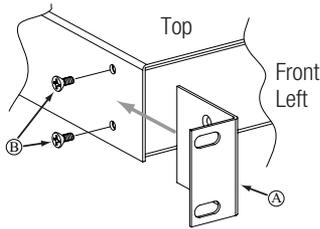
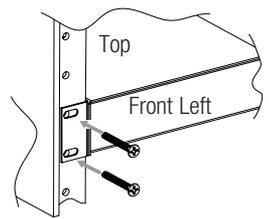


Fig. 4c



Wall Mount Installation

1. Install mounting brackets (A) on the left and right side of rack chassis using two (2) flat head screws (B) (included) (Fig. 5a).
 2. Place unit at desired location and secure with mounting screws (not included) (Fig. 5b).
- Caution:** It is necessary to make sure mounting screws are securely fastened to a beam when installing.

Fig. 5

Fig. 5a

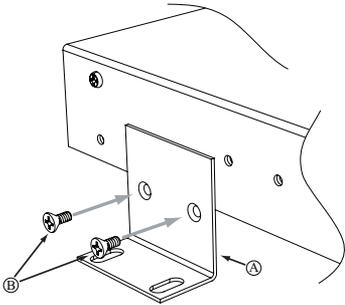
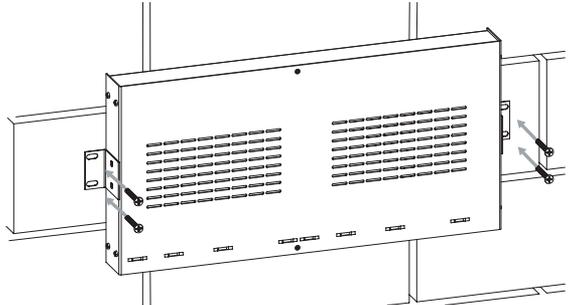


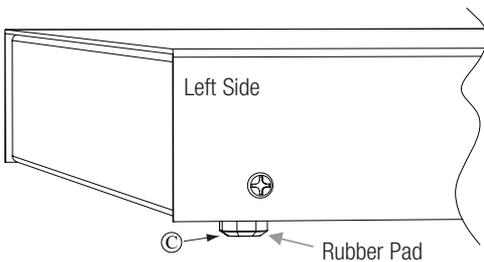
Fig. 5b



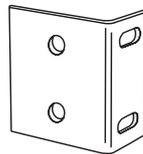
Shelf Installation

1. Position and affix rubber pads (C) (included) at each corner on the bottom of the unit (Fig. 6).
2. Place unit in desired location.

Fig. 6



Mounting Hardware (Included):



(A) Two (2) mounting brackets



(B) Six (6) flat head screws for mounting brackets.



(C) Four (4) rubber pads.

Notes:

Altronix is not responsible for any typographical errors.

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