TROVE™

Access & Power Integration

Altronix Rack Kits

Models Include:

T1RAL3L8V

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with Altronix backplane (TAL1R)
- (1) AL600RLBV - Power Supply/Charger
- (1) VR6 - Voltage Regulator
- (1) PDS8 - Fused Dual Output Power Distribution Module
- (1) ACMS8 - Fused Dual Output Access Power Controller

T1RAL3L8DV

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with Altronix backplane (TAL1R)
- (1) AL600RLBV - Power Supply/Charger
- (1) VR6 - Voltage Regulator
- (1) PDS8CB - PTC Dual Output Power Distribution Module
- (1) ACMS8CB - PTC Dual Output Access Power Controller

T1RAL3316V

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with Altronix backplane (TAL1R)
- (2) AL600RLBV - Power Supply/Chargers
- (2) ACMS8 - Fused Dual Output Access Power Controllers

T1RAL3316DV

16 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with Altronix backplane (TAL1R)
- (2) AL600RLBV - Power Supply/Chargers
- (2) ACMS8CB - PTC Dual Output Access Power Controllers

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

CE

Altronix®

More than just power.™

Rev. 110725

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Rack kits are pre-assembled and consist of Trove1AL1R enclosure/backplane with factory installed Altronix power supply/charger(s) and sub-assemblies.

Configuration Chart:

<table>
<tr><th>Altronix Model Number</th><th>220VAC 60Hz Input Current (A)</th><th>Power Supply Board Input Fuse Rating</th><th>Nominal DC Output Voltage Range (VDC)</th><th>Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB) Access Power Controllers' outputs</th><th>Fail-Safe/Fail-Secure or Dry Form "C" Outputs</th><th>Current Per ACMS8(CB) Output (A)</th><th>ACMS8(CB) Board Input Fuse Rating</th><th>ACMS8(CB) Board Output Fuse Rating</th><th>PDS8(CB) Board Input Fuse Rating</th><th>PDS8(CB) Board Output Fuse Rating</th></tr>
<tr><td>T1RAL3L8V</td><td rowspan="2">1.5</td><td rowspan="2">5A/ 250V</td><td>20.19-26.4</td><td>24VDC @ 5.6A</td><td rowspan="2">8</td><td>2.5</td><td>15A/ 32V</td><td>3A/ 32V</td><td>10A/ 32V</td><td>3A/ 32V</td></tr>
<tr><td>T1RAL3L8DV</td><td>20.19-26.4</td><td></td><td>2.0</td><td>9A</td><td>2.5A</td><td>9A</td><td>2.5A</td></tr>
<tr><td rowspan="2">T1RAL3316V</td><td rowspan="4">3</td><td rowspan="4">5A/ 250V</td><td colspan="2">Power Supply 1 (24VDC)</td><td rowspan="4">16</td><td rowspan="2">2.5</td><td rowspan="2">15A/ 32V</td><td rowspan="2">3A/ 32V</td><td rowspan="2">–</td><td rowspan="2">–</td></tr>
<tr><td>20.19-26.4</td><td>24VDC @ 5.6A</td></tr>
<tr><td rowspan="2">T1RAL3316DV</td><td colspan="2">Power Supply 2 (12VDC)</td><td rowspan="2">2.0</td><td rowspan="2">9A</td><td rowspan="2">2.5A</td><td rowspan="2">–</td><td rowspan="2">–</td></tr>
<tr><td>10.0-13.2</td><td>12VDC @ 5.3A</td></tr>
</table>

Specifications:

Agency Listings:

- CE European Conformity.

Mechanical:

- Black enclosure with ample knockouts for convenient access.
- Includes: tamper switch, cam lock and mounting hardware.
- Modular 2U standard EIA 19" drawer with extendable slides up to 48".
- Dimensions (H x W x D): 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)

Included Accessories:

- One (1) tamper switch (Altronix Model TS112 or equivalent).
- Cam lock.

Available Accessories (not included):

- RE2: Rack Mount Battery Enclosure accommodates up to four (4) 12VDC/7AH batteries.
- WM5, WM25, WM100: Magnetic Cable Tie Mounts (5, 25, 100 counts).

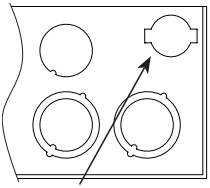
Installation Instructions for Altronix Trove Rack Kits:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. These products are for indoor use only and must be installed within the protected premises.

Note: First assemble and Install Z Bracket Wire Management Accesory *(refer to Z Bracket Installation pg. 4)*

1. Remove backplane from enclosure prior to installing into rack cabinet (do not discard hardware).
2. In order to mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) turn the enclosure upside down. Punch out the knockout in designated location, on the back of the unit, from outside of the drawer *(Fig. 1, pg. 3)*. Insert the tamper switch into the knockout from outside of the drawer with the button facing outwards and spaded connectors inside the drawer. Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device.
   To activate alarm signal open the rack drawer.

Fig. 1
Back of the drawer, viewed from outside.



Tamper Switch mounting location

3. Slide the rack enclosure into an open 2U location in the four post rack cabinet.
4. Utilizing proper fasteners attach front ears to the rack rails.
5. Attach the rear of the adjustable slides to the rear rails of the rack cabinet with the proper fasteners.
6. Secure the rack cover *(Fig. 2a, pg. 3)* and rack drawer to earth ground *(Fig. 2b, pg. 3)*.

Fig. 2

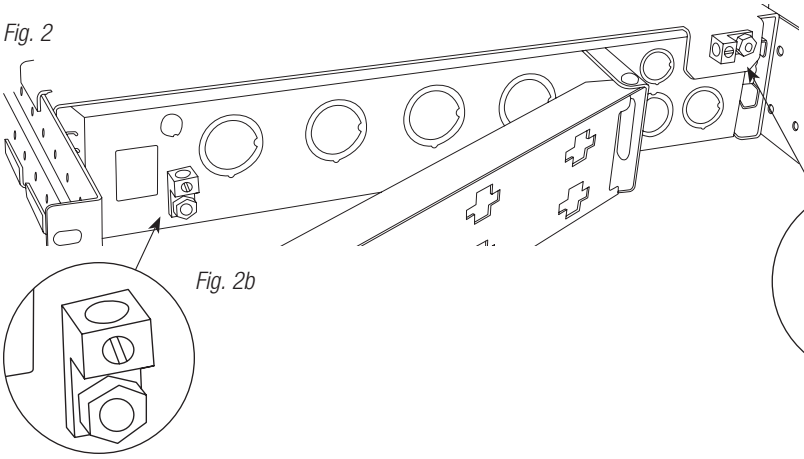


Fig. 2a

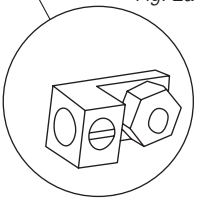


Fig. 2b

7. Make sure that all internal configurations (wiring, voltage selection, switch settings, etc.) are complete before mounting backplane back into enclosure.
8. Refer to the *XBV Power Supply/Charger Installation Guide* for AL600RLBV and corresponding sub-assembly Installation Guides for the following models: ACMS8, PDS8, VR6 for further instructions.

Assembling and Attaching
Z Bracket Wire Management Accessory (included):

Altronix Trove Rack enclosures include Z Bracket, a convenient and reliable wire management accessory.

Hardware (included)**:**

Ten (10) bolts and eight (8) lock nuts.

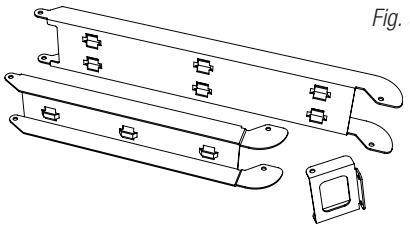


Fig. 3

Two (2)

1. Carefully unpack Z Bracket. Do not discard hardware (included) *(Fig. 3, pg. 4)*.
2. Attach arms to each other using bolts and lock nuts *(Fig. 3a, pg. 4)*.
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on *(Fig. 3b, pg. 4)*.
4. Make sure that all nuts are tightened.

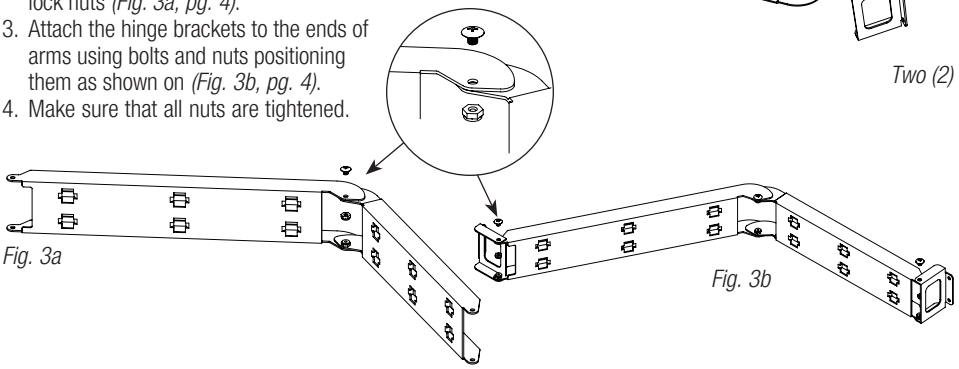


Fig. 3a

Fig. 3b

5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable slide using bolts and lock nuts (included) *(Fig. 4, 4a, pg. 4)*.
6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).

Fig. 4

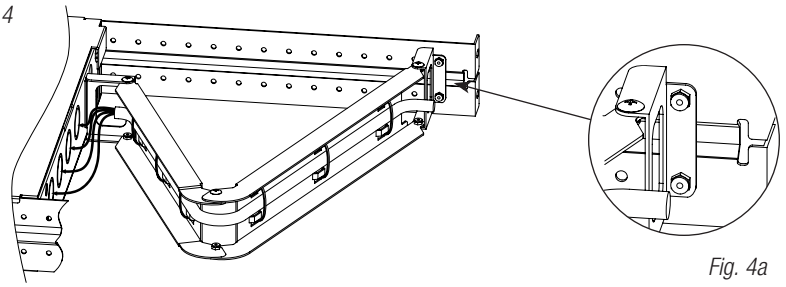
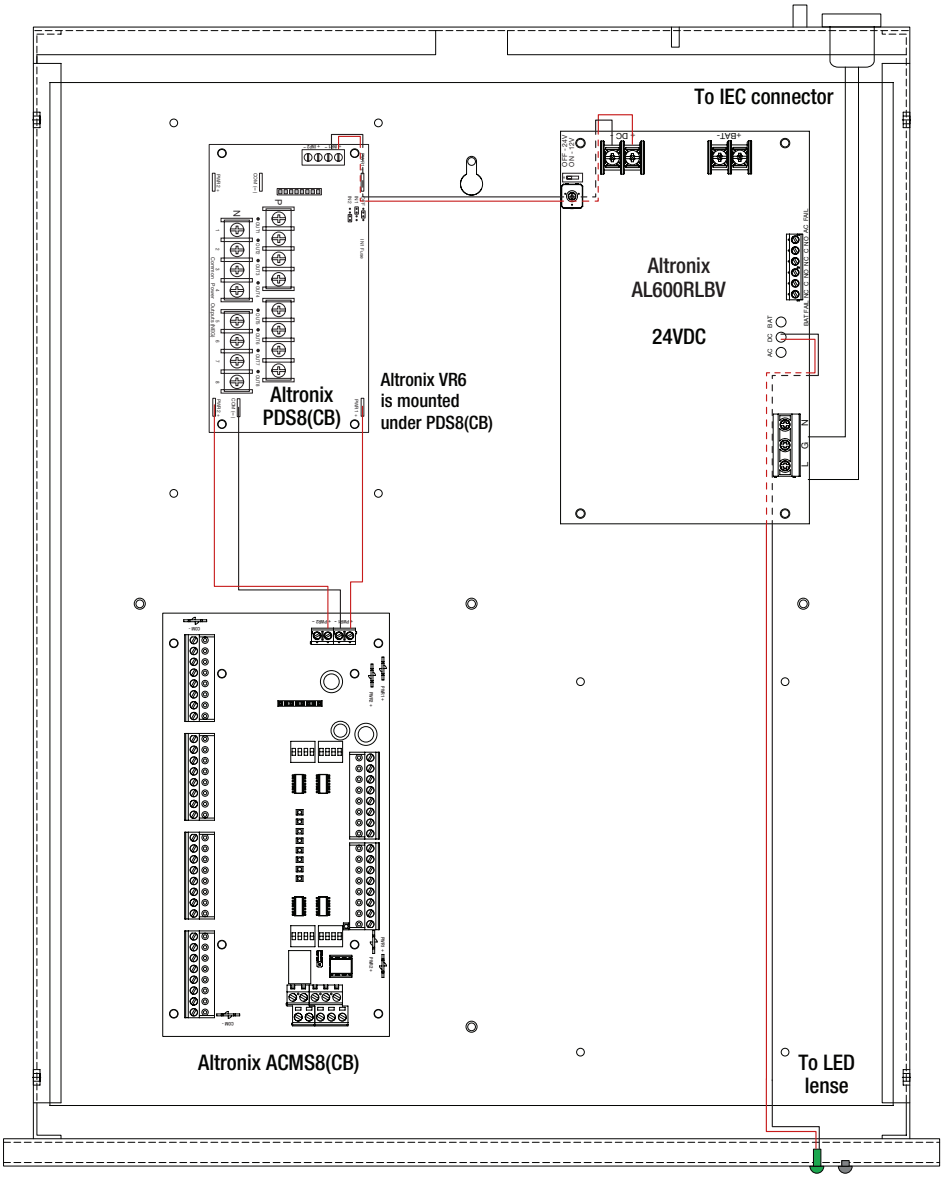


Fig. 4a

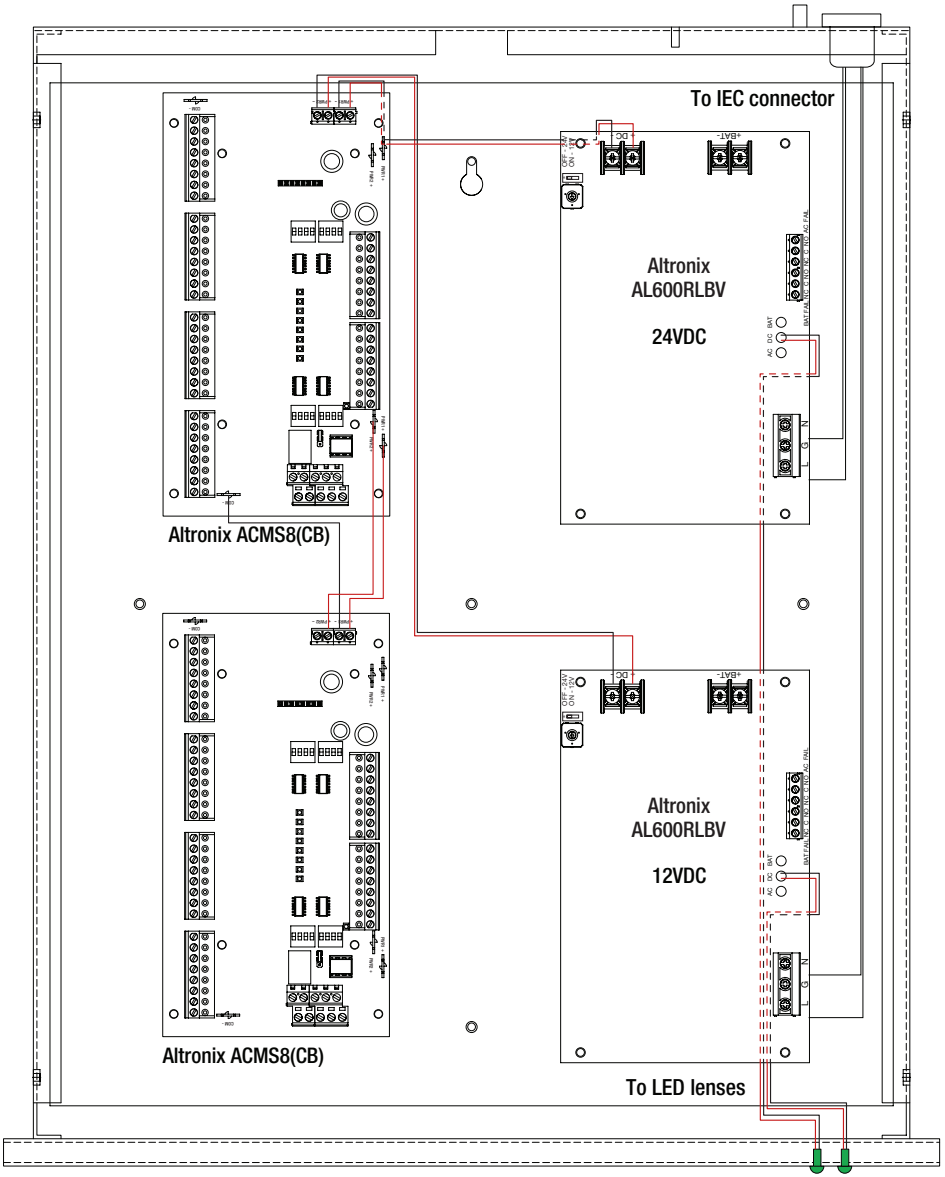
T1RAL3L8(D)V Configuration:

Fig. 5



T1RAL3316(D)V Configuration:

Fig. 6



Notes:

Trove1R Enclosure Dimensions:

3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm). Shown with Z Bracket attached.

