TROVE™

Access & Power Integration

Altronix/Kisi Kits

Models Include:

T1KE3F4V
4 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 backplane
- One (1) eFlow6NBV - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller

T1KE3F8V
8 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 backplane
- One (1) eFlow6NBV - Power Supply/Charger
- Two (2) ACM4 - Fused Access Power Controllers

T2KE33F16V
16 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TDR2 backplane
- Two (2) eFlow6NBV - Power Supply/Charger
- Two (2) ACM8 - Fused Access Power Controllers

T1KE3F4DV
4 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 backplane
- One (1) eFlow6NBV - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller

T1KE3F8DV
8 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 backplane
- One (1) eFlow6NBV - Power Supply/Charger
- Two (2) ACM4CB - PTC Access Power Controllers

T2KE33F16DV
16 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TDR2 backplane
- Two (2) eFlow6NBV - Power Supply/Charger
- Two (2) ACM8CB - PTC Access Power Controllers

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

Installation Guide

CE

Altronix®

More than just power.™

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Rev. 102924

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Kisi kits are pre-assembled and consist of Trove1DR1 or Trove2DR2 enclosure/backplane with factory installed Altronix power supply/charger(s) and sub-assemblies. Trove Kisi kits also accommodates up to four (4) Kisi Pro Controllers for up to sixteen (16) doors in a single enclosure.

Configuration Chart:

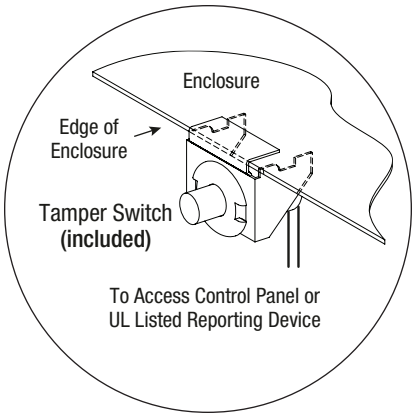
Altronix Model Number	220VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main and Aux. Outputs on Power Supply board(s) and ACM4(CB) or ACM8(CB) Access Power Controllers' outputs	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Fail-Safe/ Fail-Secure Outputs	ACM4(CB)/ ACM8(CB) Board Input Fuse (PTC) Rating	ACM4(CB)/ ACM8(CB) Board Output Fuse (PTC) Rating
T1KE3F4V	2.5	5A/ 250V	10A/ 32V	24VDC @ 5.7A	20.17-26.4	20.28-26.4	4	10A/32V	3A/32V
T1KE3F4DV								9A	2.5A
T1KE3F8V							8	10A/32V	3A/32V
T1KE3F8DV								9A	2.5A
T2KE33F16V							16	10A/250V	3.5A/250V
T2KE33F16DV									2.5A

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Remove backplane from enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top two/three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/three upper screws, level and secure. Mark the position of the lower two/three holes. Remove the enclosure. Drill the lower holes and install the two/three fasteners. Place the enclosure's upper keyholes over the two/three upper screws. Install the two/three lower screws and make sure to tighten all screws refer to *pages 6-7*.
3. Mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) in desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure, approximately 2" from the right side *(Fig. 1, pg. 2)*. Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.

Fig. 1



4. Connect unswitched AC power (220VAC 60Hz) to terminals marked [L, N]. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground. Green "AC" LED on power supply board will turn on. This light can be seen through the LED lens on the door of the enclosure.
   Keep power-limited wiring separate from non power-limited wiring (220VAC 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided.
   CAUTION: Do not touch exposed metal parts.
   Shut branch circuit power before installing or servicing equipment.
   There are no user serviceable parts inside.
   Refer installation and servicing to qualified service personnel.
5. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Mount Kisi Pro Controllers to TDR1 or TDR2 backplane, refer to *pages 3-5*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NBV and corresponding *Sub-Assembly Installation Guides* for ACM4(CB) and ACM8(CB) for further installation instructions.

Hardware:

Spacer | 5/16" Pan Head Screw | Mounting Magnet

T1KE3F4V and T1KE3F4DV: Configuration of Kisi Pro Controllers:

1. Fasten mounting magnets (provided) to Kisi Pro Controllers with screws and spacers (provided) using the controllers' mounting holes *(Fig. 2, pg. 3)*.
2. Attach mounting magnets to TDR1 in the approximate position as shown below *(Fig. 2a, pg. 3)*.
   Note: Kisi Pro Controllers should be properly oriented.
   Please make sure that they are mounted correctly, as shown in *Fig. 2* below.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing hardware (provided).

Access Controller Position Chart for the Following Models:

Kisi	Pem Mounting
Pro Controller	Ⓐ

Fig. 2 - **T1KE3F4(D)V Configuration**

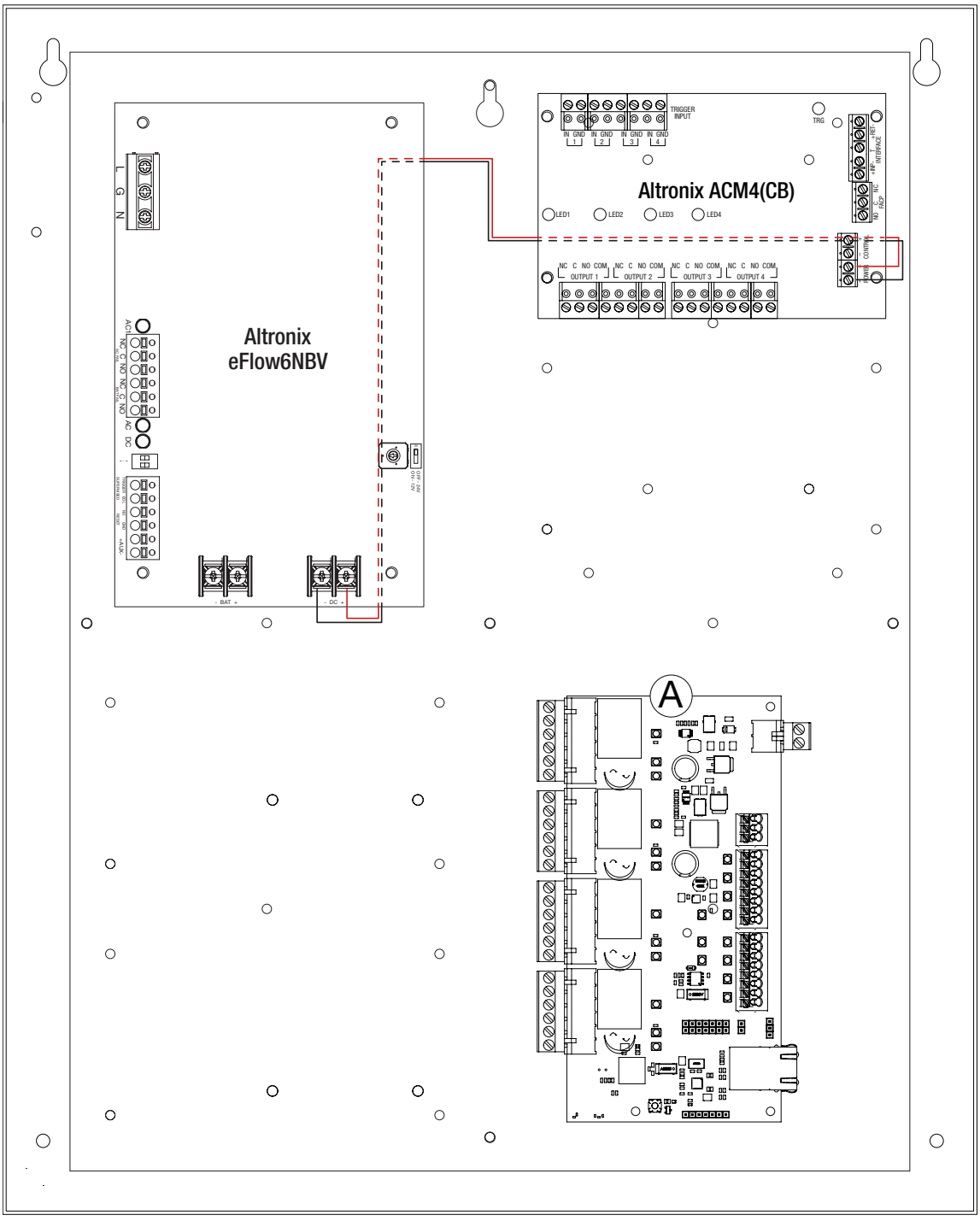
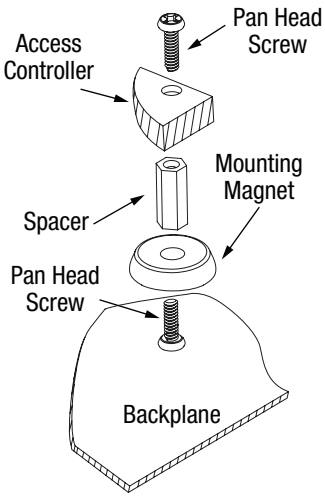


Fig. 2a



T1KE3F8V and T1KE3F8DV: Configuration of Kisi Pro Controllers:

1. Fasten mounting magnets (provided) to Kisi Pro Controllers with screws and spacers (provided) using the controllers' mounting holes *(Fig. 3, pg. 4)*.
2. Attach mounting magnets to TDR1 in the approximate position as shown below *(Fig. 3a, pg. 4)*.
   Note: Kisi Pro Controllers should be properly oriented.
   Please make sure that they are mounted correctly, as shown in *Fig. 3* below.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing hardware (provided).

Access Controller Position Chart for the Following Models:

Kisi	Pem Mounting
Pro Controller	(A)

Fig. 3 - **T1KE3F8(D)V Configuration**

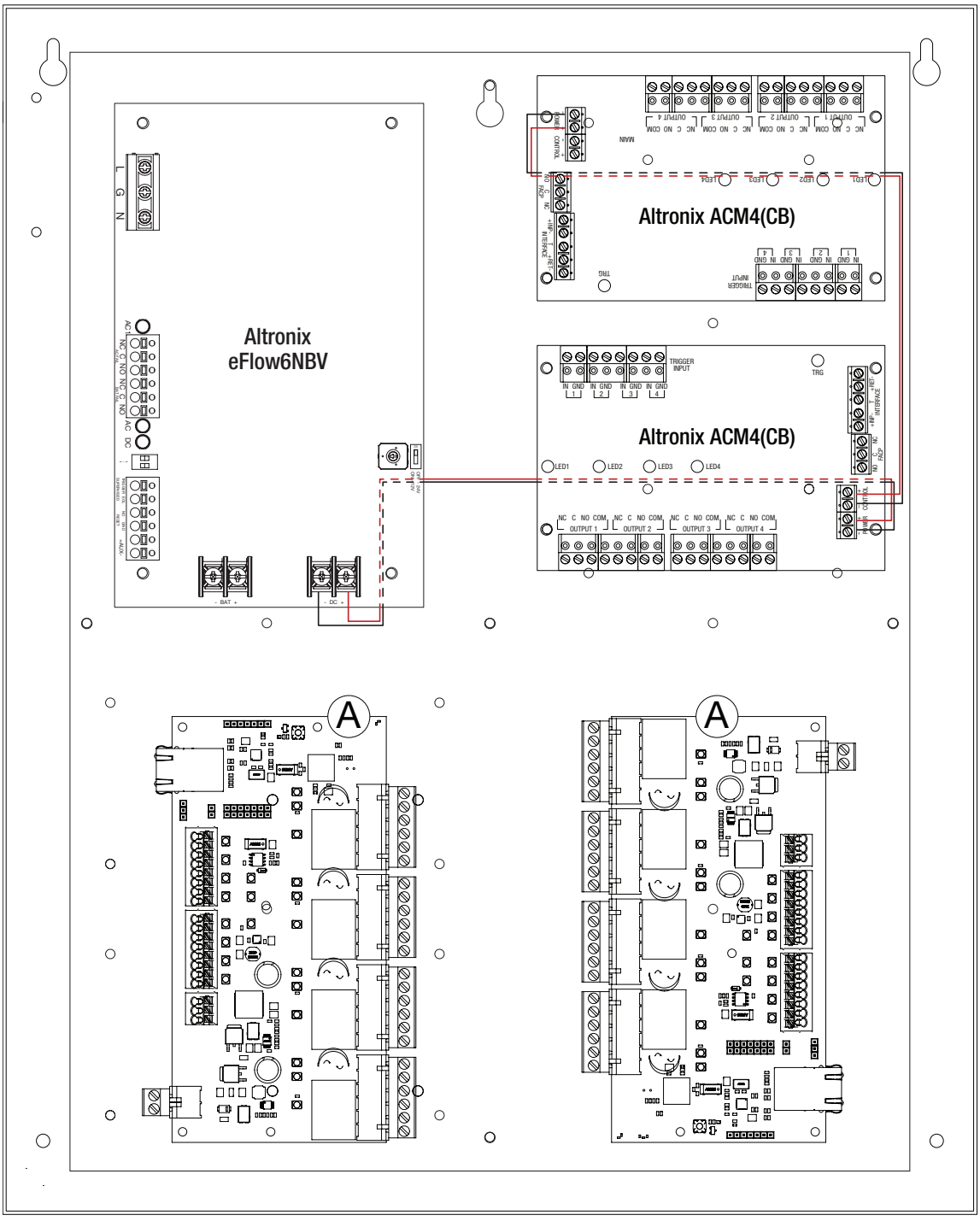
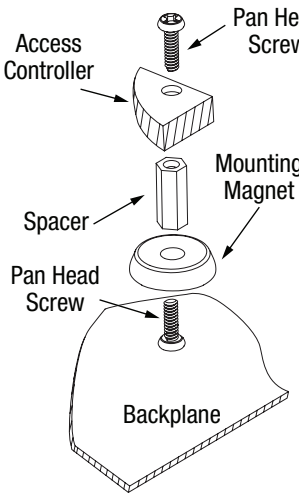


Fig. 3a



T2KE33F16V and T2KE33F16DV: Configuration of Kisi Pro Controllers:

1. Fasten mounting magnets (provided) to Kisi Pro Controllers with screws and spacers (provided) using the controllers' mounting holes *(Fig. 4, pg. 5)*.
2. Attach mounting magnets to TDR2 in the approximate position as shown below *(Fig. 4a, pg. 5)*.
   Note: Kisi Pro Controllers should be properly oriented.
   Please make sure that they are mounted correctly, as shown in *Fig. 4* below.
3. Fasten TDR2 backplane to Trove2 enclosure utilizing hardware (provided).

Access Controller Position Chart for the Following Models:

Kisi	Pem Mounting
Pro Controller	Ⓐ

Fig. 4 - **T2KE33F16(D)V Configuration**

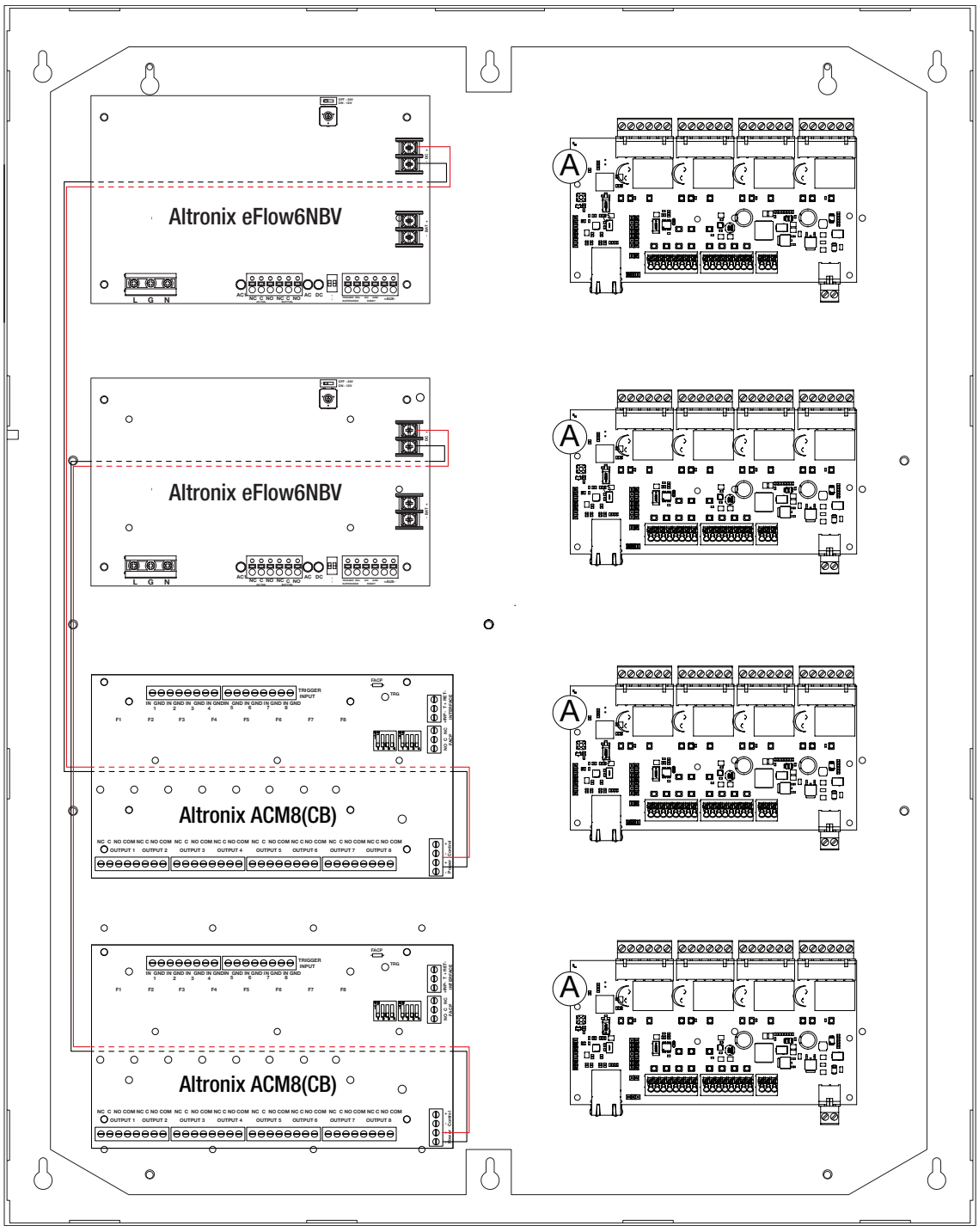
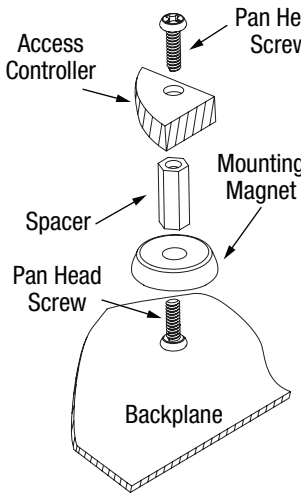
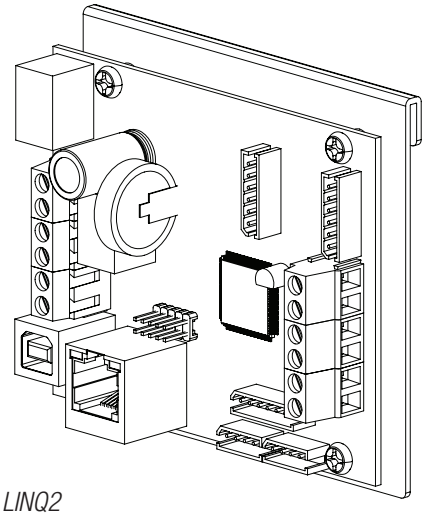


Fig. 4a



eFlow Power Supply/Chargers can be Controlled and Monitored while Reporting Power/Diagnostics from Anywhere over the Network...



LINQ2

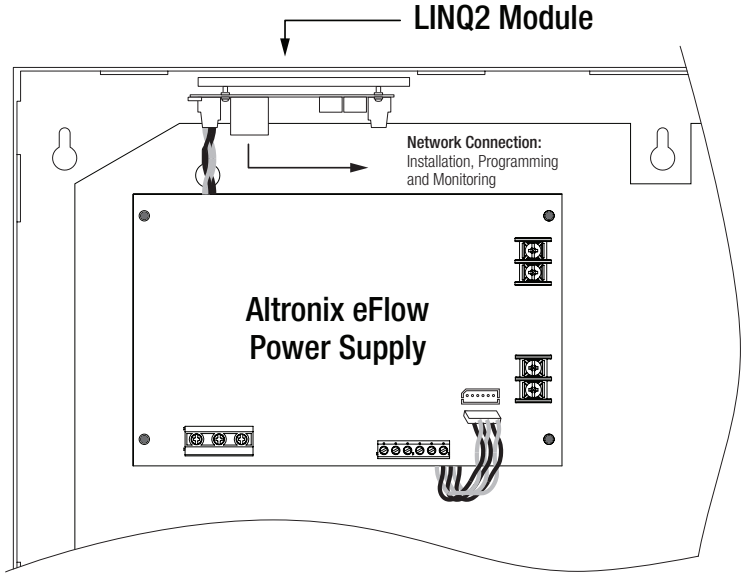
LINQ2 - Network Communication Module

LINQ2 provides remote IP access to real-time data from eFlow power supply/chargers to help keep systems up and running at optimal levels. It facilitates fast and easy installation and set-up, minimizes system downtime, and eliminates unnecessary service calls, which helps reduce Total Cost of Ownership (TCO) - as well as creating a new source of Recurring Monthly Revenue (RMR).

Features:

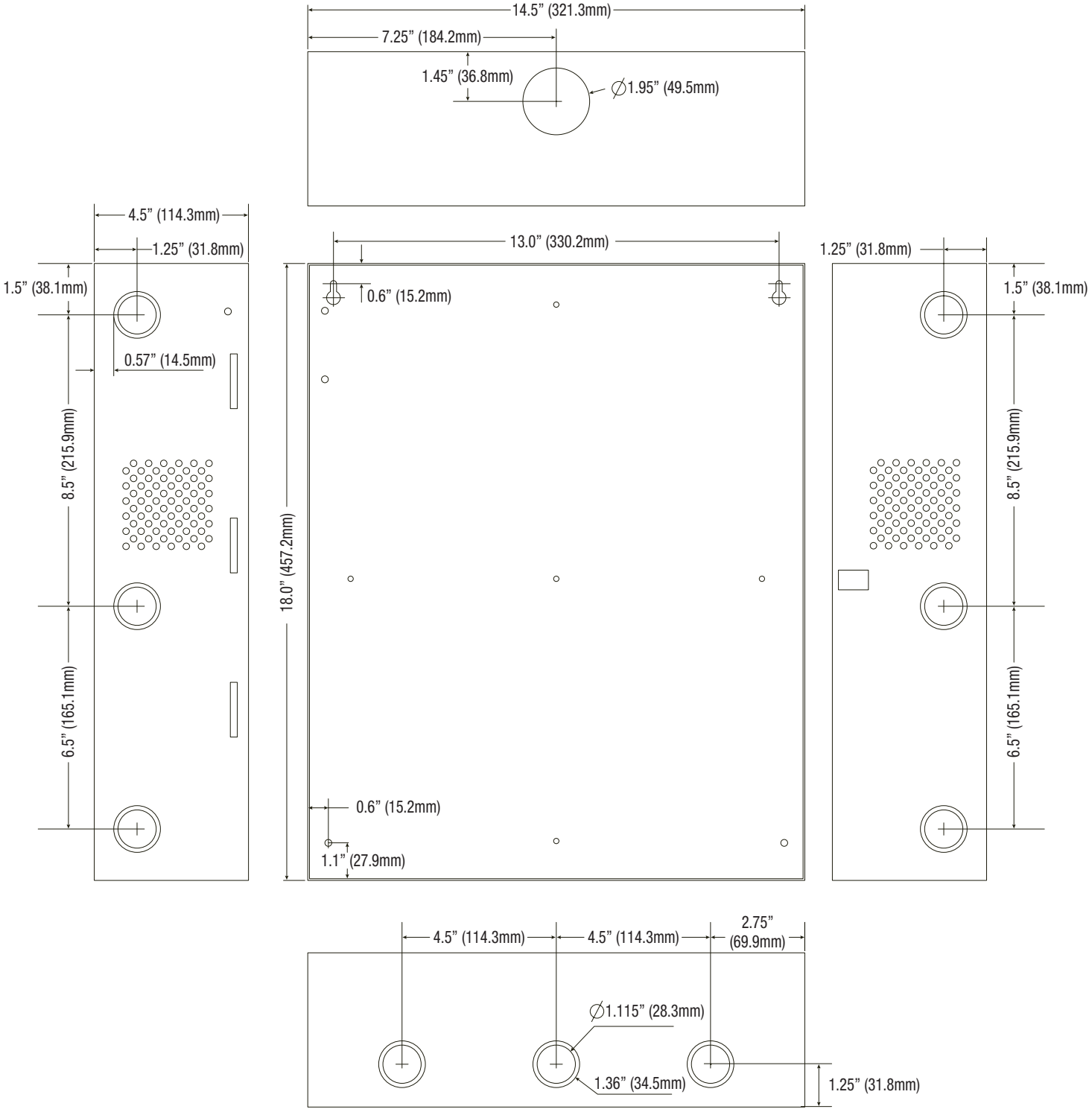
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access control and user managment: Restrict read/write, Restrict users to specific resources
- Two (2) integral network controlled Form “C” Relays.
- Three (3) programmable input triggers: Control relays and power supplies via external hardware sources.
- Email and Windows Dashboard notifications
- Event log tracks history.
- Secure Socket Layer (SSL).
- Programmable via USB or web browser - includes operating software and 6 ft. USB cable.

LINQ2 Mounts Inside any Trove Enclosure



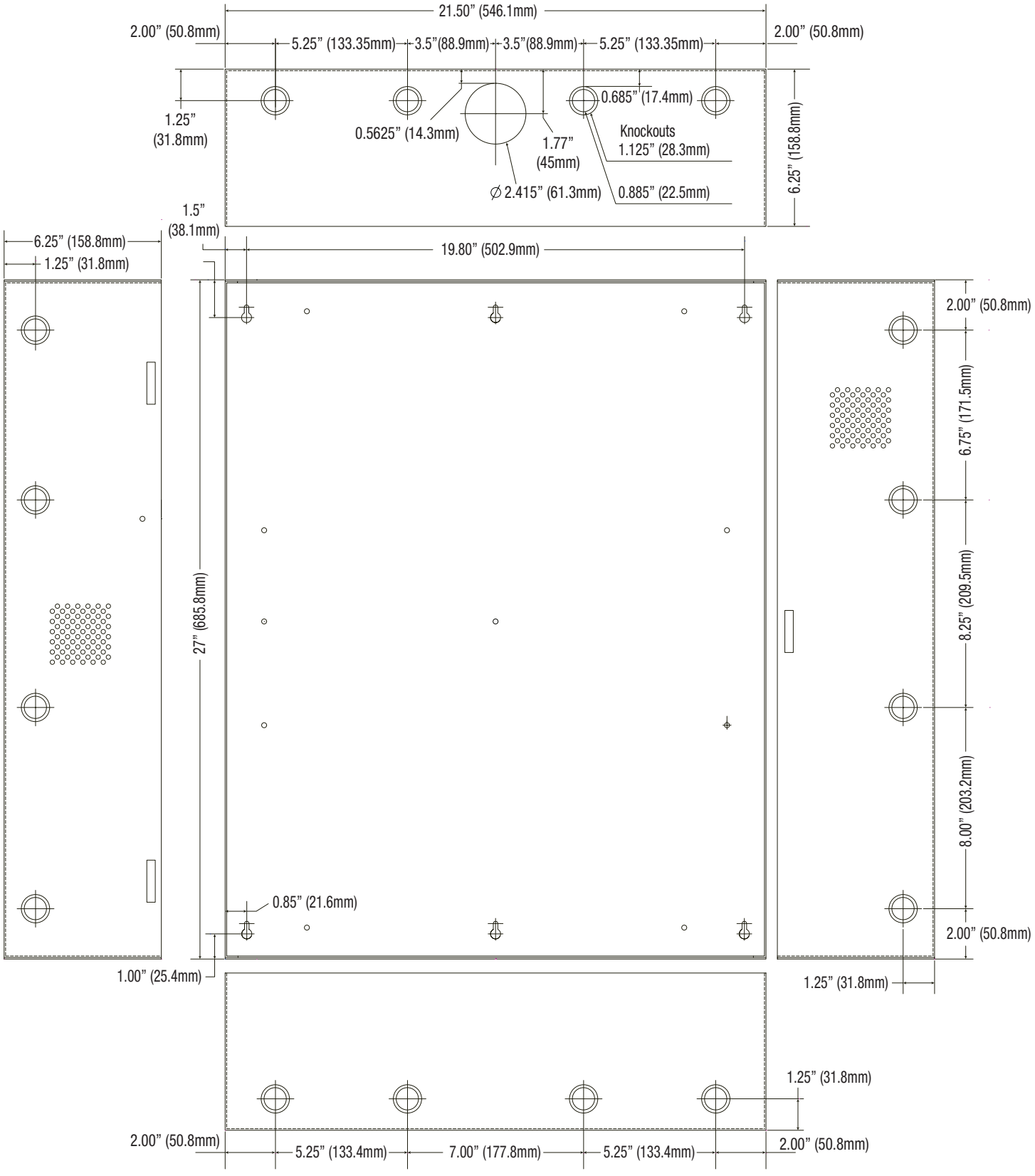
T1KE3F4(D)V and T1KE3F8(D)V Enclosure Dimensions (H x W x D approximate)**:**

18” x 14.5” x 4.625” (457mm x 368mm x 118mm)



T2KE33F16(D)V Enclosure Dimensions (H x W x D approximate)**:**

27.25” x 21.5” x 6.5” (692.2mm x 552.5mm x 165.1mm)



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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