

*Versatile Access Power  
and Integration Enclosures*

**TROVE™**

*Installation Guide*

*Includes Models:*

*Trove1*

*Trove2*



## Overview:

Trove accommodates various combinations of access controllers and accessories from the industry's leading manufacturers with or without Altronix power supplies and accessories for access systems.

## Specifications:

- 19 Gauge grey enclosure with ample knockouts for convenient access.

## Trove Model Identification:

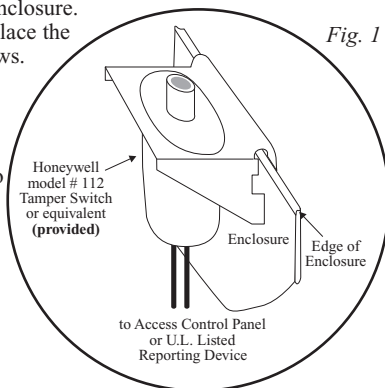
Series	Enclosure Size (H" x W" x D")	Backplane Model	Power Supply 1	Power Supply 2	Power Supply Feature Set
Trove	2	M	1	3	F
	1 = 18" x 14.5" x 4.625" 2 = 27.25" x 21.75" x 6.5"	AM = AMAG C / CV = CDVI KA = Keyscan M = Mercury SH = Software House V = HID/Vertx	1 = 4A 3 = 6A 5 = 10A/12VDC 7 = 10A/24VDC	1 = 4A 3 = 6A 5 = 10A/12VDC 7 = 10A/24VDC Blank = Not installed	Blank = ULXB F = eFlow

## Backplane Model Identification:

Backplane Model	Manufacturer	Dimensions (H x W x D)	Trove Enclosure
TC1	CDVI	16.65" x 12.5" x 0.3125" (422.9mm x 321.3mm x 7.9mm)	Trove1
TM1	Mercury		
TV1	HID/Vertx		
TAM2	AMAG	25.4" x 19.4" x 0.3125" (645.16mm x 492.76mm x 7.9mm)	Trove2
TCV2	CDVI		
TKA2	Keyscan		
TM2	Mercury		
TSH2	Software House		
TV2	HID/Vertx		
TMV2	Mercury/Vertx door backplane	23.75" x 18.125" x 0.3125" (603.25mm x 460.4mm x 7.9mm)	

## Installation Instructions:

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 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 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.
3. Mount included UL Listed tamper switch (Ademco model 112 or equivalent) in desired location, opposite from 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.
4. Mount boards to backplane, refer to individual backplane installation instructions.



## Power Supply Specifications:

Power Supply Model #	Identification Code	Input	Output		Battery Size for 30 min. Backup
			12VDC	24VDC	
AL400ULXB2	1	115VAC, 60Hz, 3.5A	4A	3A	4AH
AL600ULXB	3	115VAC, 60Hz, 3.5A	6A		7AH
AL1012ULXB	5	115VAC, 60Hz, 2.6A	10A	—	12AH
AL1024ULXB2	7	115VAC, 60Hz, 4.2A	—	10A	12AH

eFlow4NB	1F	115VAC, 60Hz, 3.5A	4A	3A	4AH
eFlow6NB	3F	115VAC, 60Hz, 3.5A	6A		7AH
eFlow102NB	5F	115VAC, 60Hz, 3.5A	10A	—	12AH
eFlow104NB	7F	115VAC, 60Hz, 4.5A	—	10A	12AH

## 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.

- The power supply is pre-wired to the ground (chassis). Connect main incoming ground to the provided green grounding conductor lead. Connect unswitched AC power (115VAC 60Hz) to the terminals marked [L, N] on a single or both power supply boards. Use 14 AWG or larger for all power connections.

**Keep power-limited wiring separate from non power-limited wiring.**

**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.**

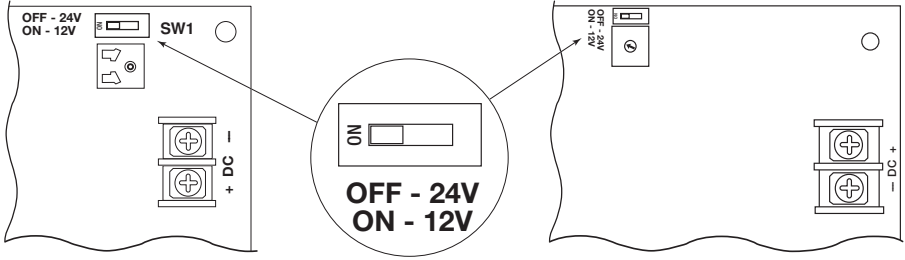
- Select desired DC output voltage by setting SW1 to the appropriate position on the AL400ULXB2, AL600ULXB, eFlow4NB and eFlow6NB power supply (*Figs. 2 and 2a, pg. 4*). AL1012ULXB and eFlow102NB power supplies are factory set at 12VDC. AL1024ULXB2 and eFlow104NB power supplies are factory set at 24VDC.
- Measure the output voltage of the unit before connecting any devices to ensure proper operation. Improper or high voltage will damage these devices.
- Connect devices or Altronix sub-assembly modules to be powered to the terminals marked [- DC +].

**eFlow Power Supply:** For auxiliary device connection, this output will not be affected by Low Power Disconnect or Fire Alarm Interface. Connect device to the terminals marked [+ AUX -].

- For Access Control applications batteries are optional. When batteries are not used, a loss of AC will result in the loss of output voltage. When the use of stand-by batteries is desired, they must be lead acid or gel type. Connect battery to the terminals marked [- BAT +]. Use two (2) 12VDC batteries connected in series for 24VDC operation (battery leads included). Use batteries Casil CL1270 (12V/7AH), CL12120 (12V/12AH), CL12400 (12V/40AH), CL12650 (12V/65AH) batteries or UL recognized BAZR2 batteries of an appropriate rating.
- Connect appropriate signaling notification devices to AC FAIL & BAT FAIL supervisory relay outputs.
- eFlow Power Supply:**  
To delay AC reporting for 2 hrs., set dip switch [AC Delay] to OFF position.  
To delay AC reporting for 1 min., set dip switch [AC Delay] to ON position.  
**Note:** Must be set to ON position for Burglar Alarm Applications.
- eFlow Power Supply:**  
To enable Fire Alarm Disconnect set dip switch [Shutdown] to ON position.  
To disable Fire Alarm Disconnect set dip switch [Shutdown] to OFF position.
- eFlow Power Supply:**  
Trigger terminals are end of a line resistor supervised (10k Ohms). Opening or shorting trigger terminals will cause [DC] output to shutdown.
- eFlow Power Supply:**  
Place a jumper for non-latching FACP. A momentary short on these terminals resets FACP latching [Trigger EOL Shutdown].
- Please ensure that the cover is secured with the provided key lock.

## Power Supply Board Output Voltage Settings:

Fig. 2



AL400ULXB2/AL600ULXB  
Power Supply Board

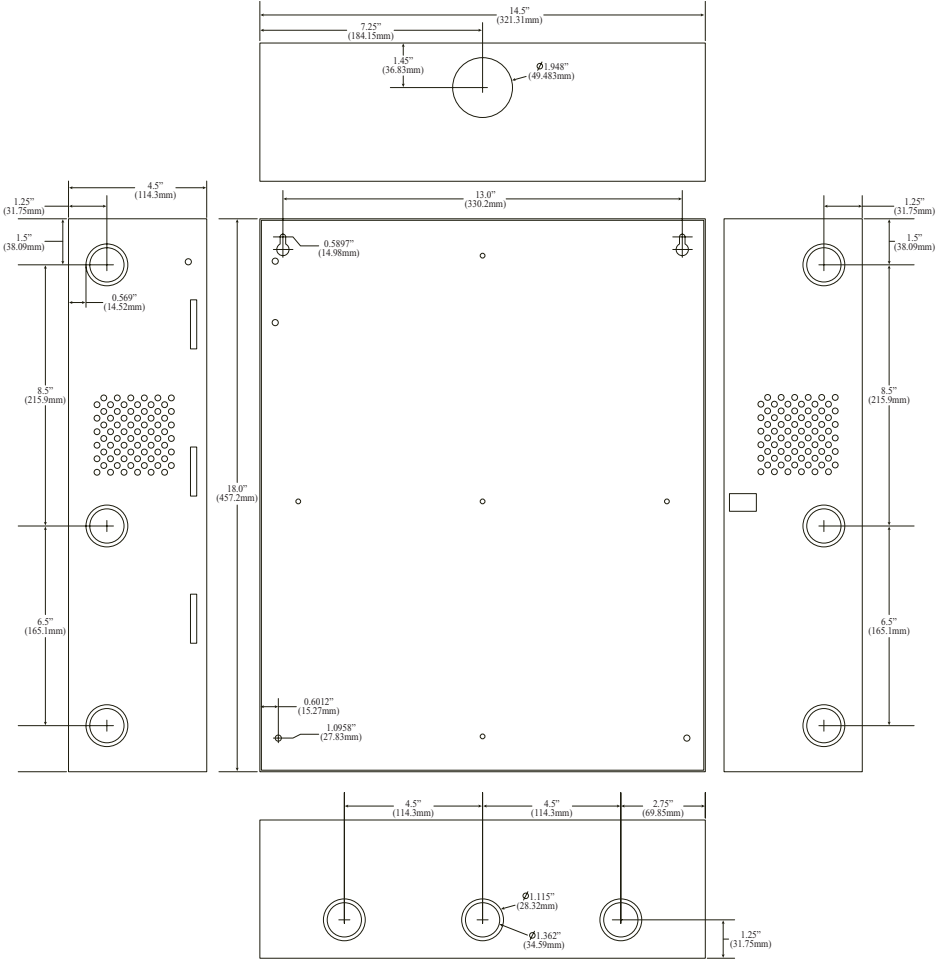
eFlow4NB/eFlow6NB  
Power Supply Board



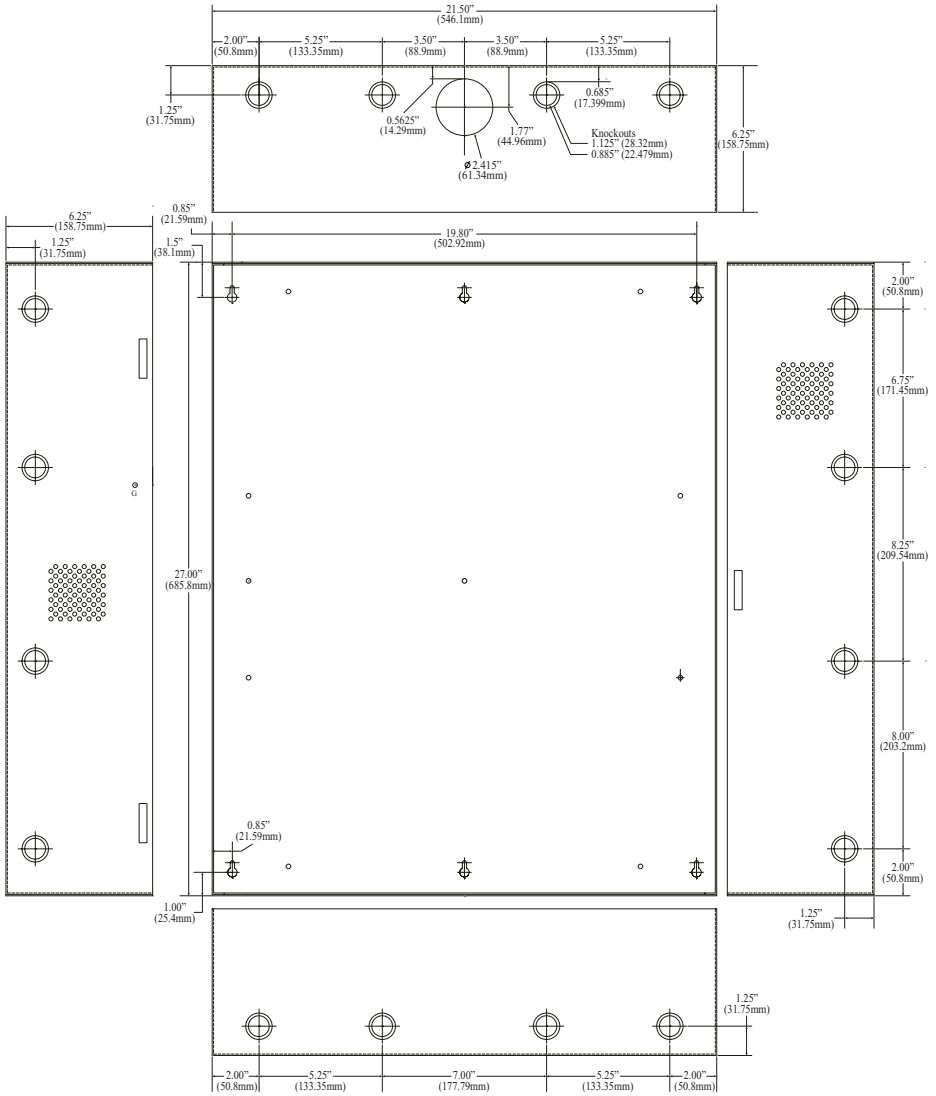


# Trove1 Enclosure Dimensions (H x W x D):

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



**Trove2 Enclosure Dimensions (H x W x D):**  
 27.25" x 21.75" x 6.5" (692.15mm x 552.45mm x 165.1mm)



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

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