

TROVE™

Access & Power Integration

T1RAG3F8

Fully assembled kit includes:

- *Trove1R rack enclosure with T1AG1R Altronix/AMAG backplane*
- *(1) eFlow6NB - Power Supply/Charger*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Fused Dual Output Power Distribution Module*
- *(1) ACM4 - Fused Access Power Controller*

Installation Guide

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More than just power.™

Rev. T1RAG3F8_110419

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix T1RAG3F8 Trove rack kit is pre-assembled and consist of Trove rack enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies. Kits accommodate up to two (2) AMAG M4000 modules for up to eight (8) doors in a single enclosure.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage		Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8 Access Power Controller's outputs	Fail-Safe/ Fail-Secure or Dry Form "C" Outputs	ACMS8 Board Input Fuse Rating	ACMS8 Board Output Fuse Rating
				[DC]	[Aux]				
				Output Range (VDC)	Output Range (VDC)				
T1RAG3F8	3.5A	5A/250V	15A/32V	20.17-26.4	20.28-26.4	24VDC @ 5.4A	8	15A/32V	3A/32V

Hardware and Accessories:



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).

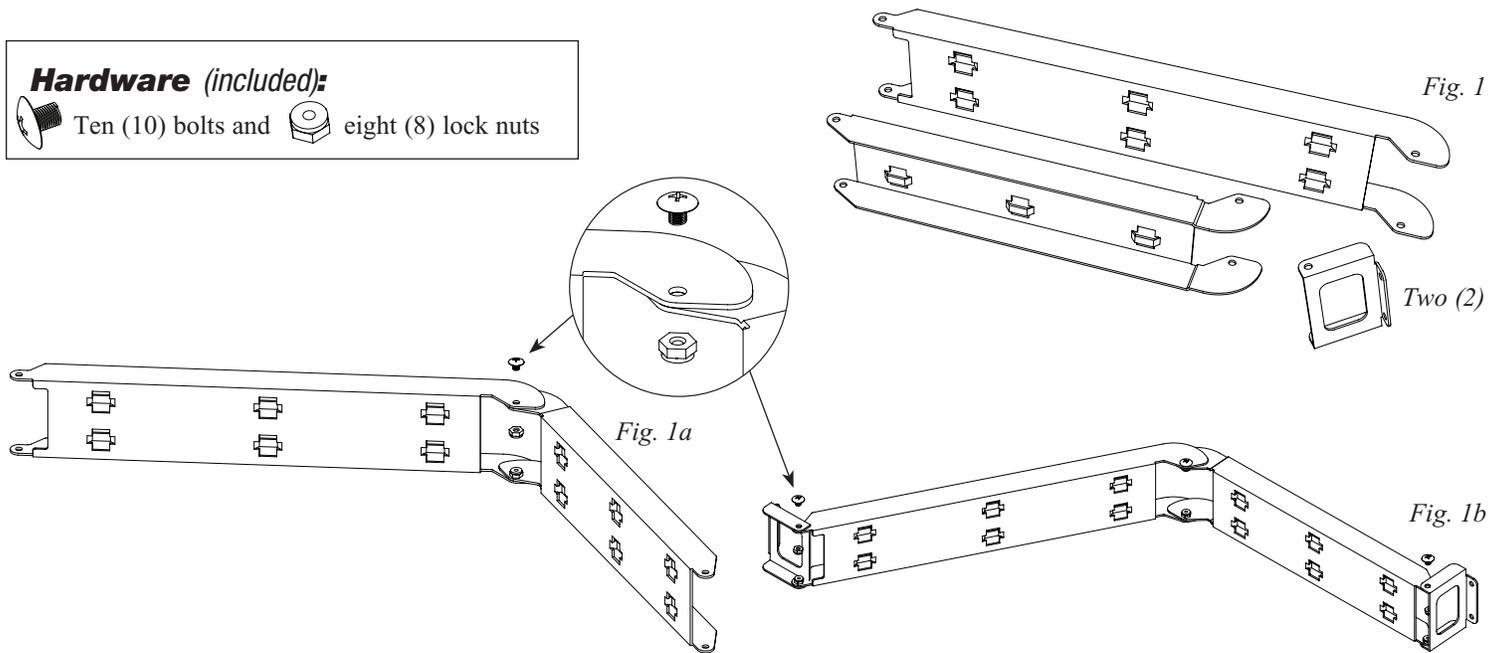
Assembling and Attaching Z Bracket Wire Management Accessory (included):

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

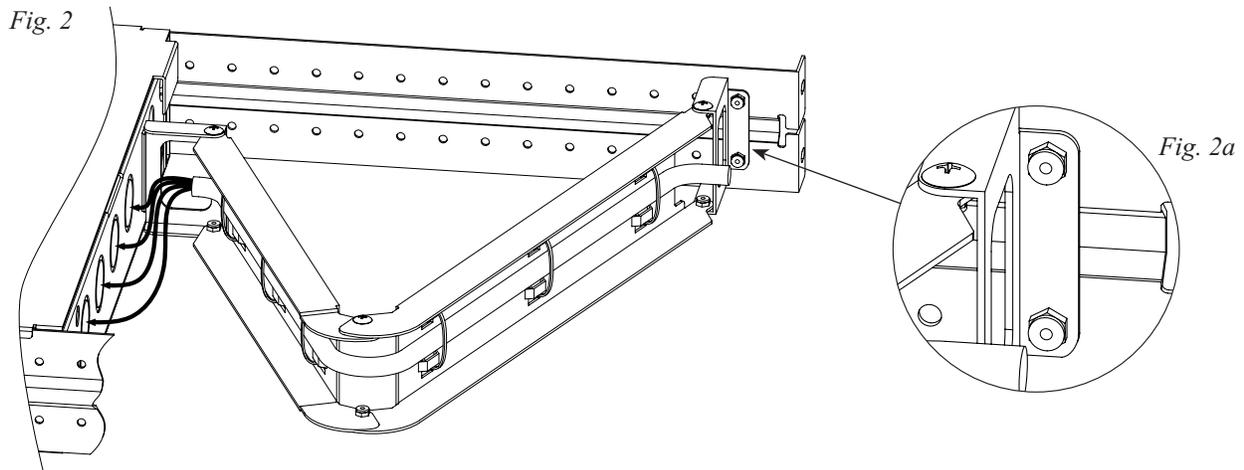
1. Carefully unpack Z Bracket. Do not discard hardware (included) (Fig. 1, pg. 3).
2. Attach arms to each other using bolts and lock nuts (Fig. 1a, pg. 3).
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on Fig. 1b, pg. 3.
4. Make sure that all nuts are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

Hardware (included):

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



5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable rail using bolts and lock nuts (included) (Fig. 2, 2a, pg. 3).
6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).

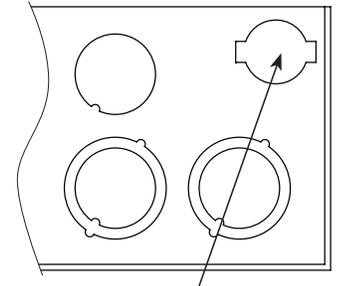


Installation Instructions for T1RAG3F8:

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 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. 3, 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.
3. Slide the Trove rack enclosure into an open 2U location in the 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. Make sure that all internal configurations (wiring, voltage selection, switch settings, etc.) are complete before mounting backplane back into enclosure.
7. After all components are mounted on the backplane, attach it to the enclosure using included hardware.
8. Mount AMAG M4000 modules to TAG1R backplane, refer to *page 5*.
9. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB and corresponding *Sub-Assembly Installation Guides* for the following models: ACMS8 and VR6 for further installation instructions.

*Fig. 3
Back of the drawer,
viewed from outside.*



Tamper Switch mounting location

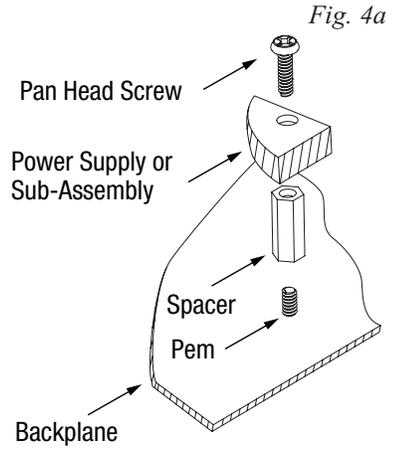
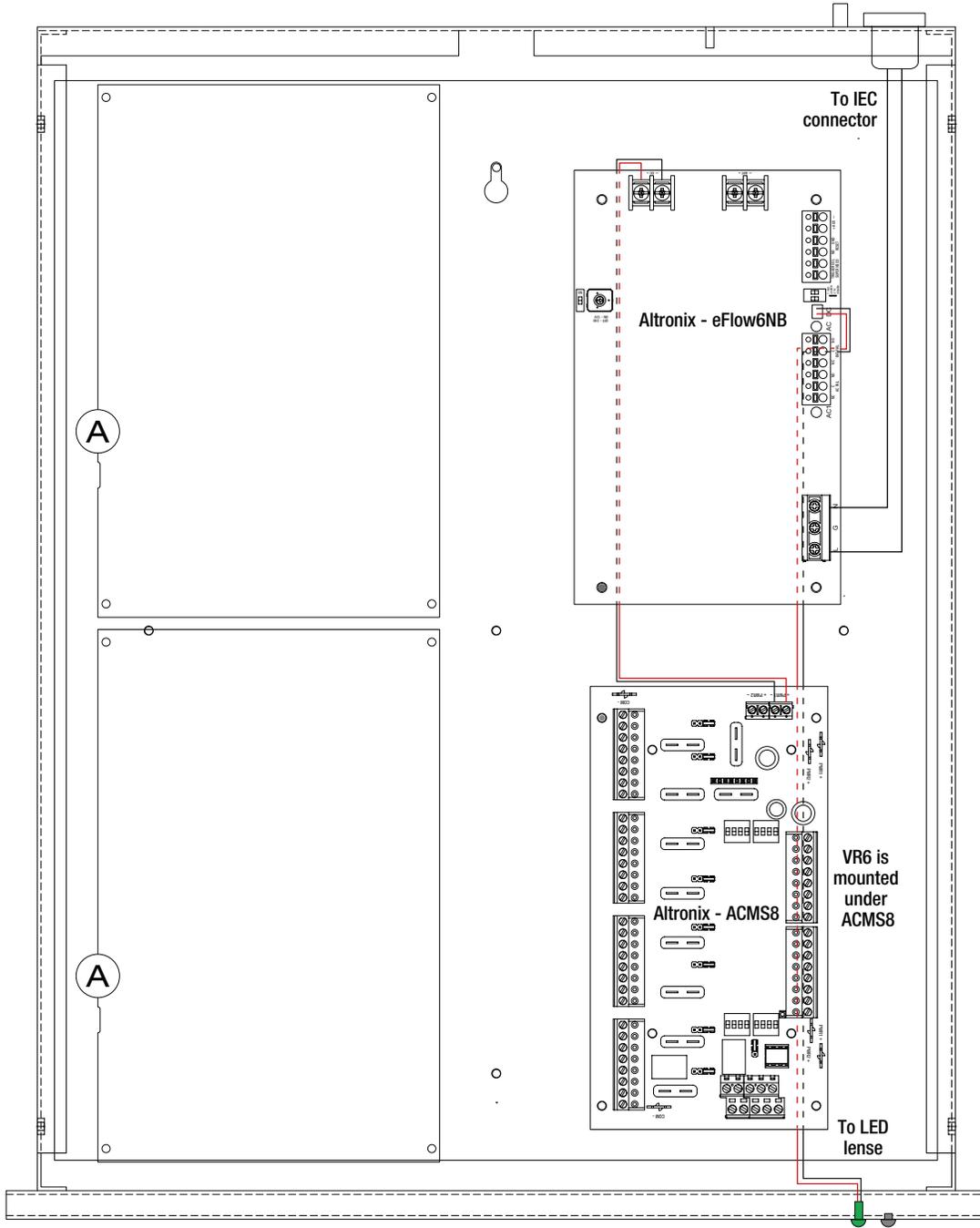
T1RAG3F8: Configuration of AMAG M4000 Modules:

1. Align the AMAG M4000 modules on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten spacers (provided) onto metal pems (Fig. 4a, pg. 3).
3. Mount AMAG M4000 modules to spacers utilizing pan head screws (provided) (Fig. 4a, pg. 3).
4. Fasten TAG1R backplane to Trove1R rack enclosure utilizing hardware (provided).

Position Chart for the Following Models:

M4000	Pem Mounting
M4000-DEC4, M4000-IOC20/16	(A)

Fig. 4

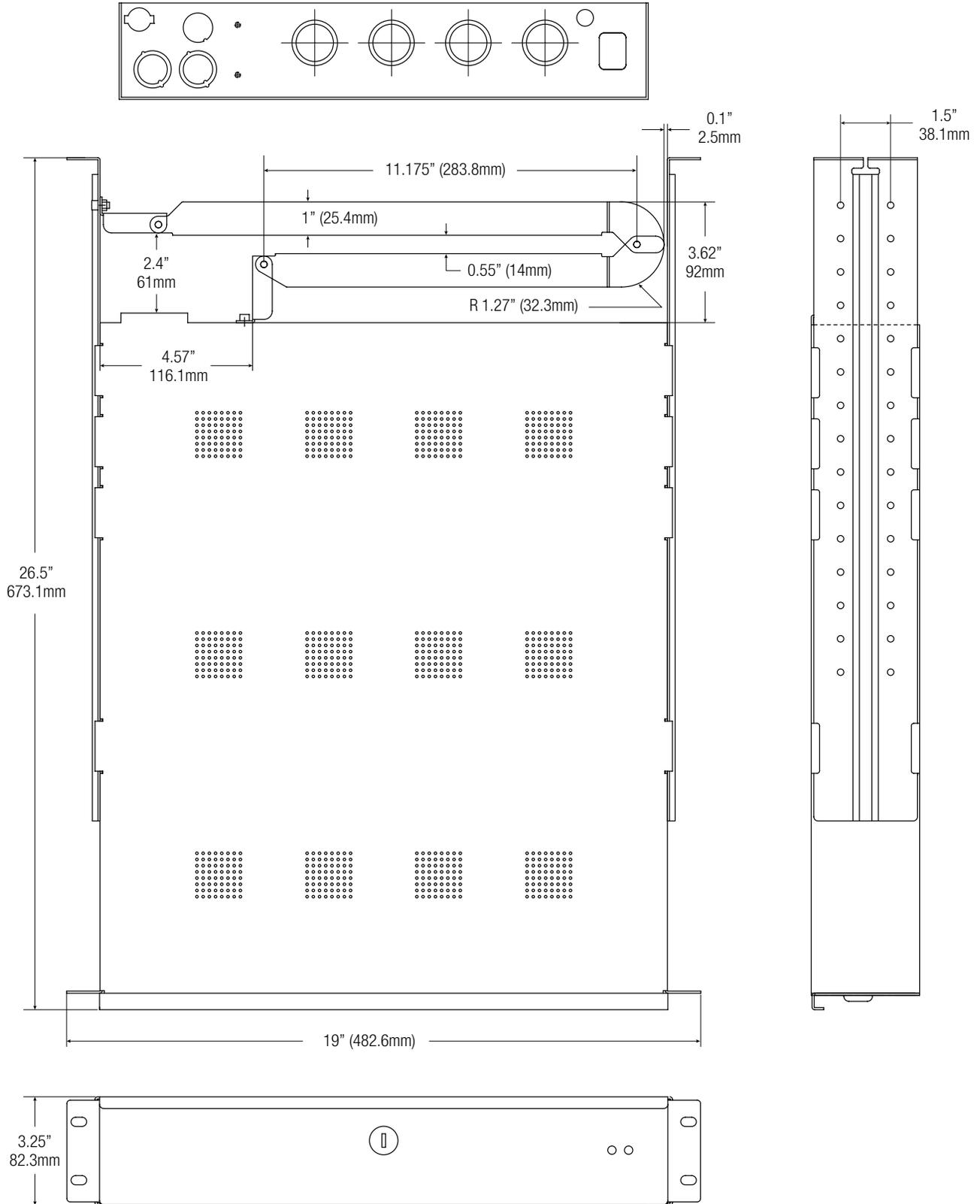


Notes:

Notes:

T1RAG3F8 Enclosure Dimensions (H x W x D):

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



Altronix is not responsible for any typographical errors.

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