

T1RAL3F8

Rack Access and Power Integration Solution



Altronix T1RAL3F8 Trove™ Rack kit is pre-assembled and consists Trove1R enclosure and TAL1R Altronix backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, 12VDC voltage regulator, eight (8) output fused dual output power distribution module and eight (8) output fused dual output access control module. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1RAL3F8

Key Features

- Output Power:
 - Eight (8) individually selectable 12VDC or 24VDC fused lock power outputs rated at 6A total max.
 - Fire Alarm Disconnect is individually selectable by output
 - Eight (8) individually selectable 12VDC or 24VDC fused power outputs rated at 6A max. for readers, REXs, controllers, etc.
- Power status LED on front panel
- Includes cam lock, tamper switch and mounting hardware
- Simplified board layout and wire management
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Convenient knockout configuration:
 - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
 - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- Included Z Bracket facilitates ease of wiring
- CE European Conformity
- Lifetime Warranty*

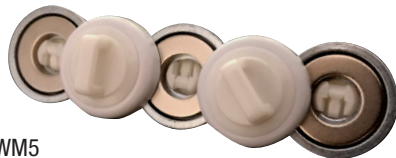
**Altronix Power Supply/Charger and Sub-Assemblies only*

Accessories (order separately)



RE2

RE2 - Rack Mount Battery Enclosure
 accommodates up to four (4) 12VDC/7AH batteries



WM5

WM5, WM25, WM100 - Magnetic Cable Tie Mounts
 Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.

Specifications

Power Supply/Charger (eFlow6NB):

Input

Voltage 120VAC, 60Hz, 3.5A max.
Main Fuse 5A/250V

Outputs

Voltage Factory set at 24VDC
Current 6A continuous
Maximum Supply Current for Main and Aux. Outputs on eFlow6NB Power Supply board, ACMS8 Access Power Controller's and PDS8 Power Distribution Module's outputs is 5.6A.
Auxiliary Class 2 power-limited @ 1A (unswitched)
Other Overvoltage protection. Filtered and regulated

Battery Backup

Type Sealed lead acid or gel type
Failover Upon AC loss, instantaneous

Fire Alarm Disconnect

Supervised Latching or non-latching
EOL 10K Resistor

Supervision

AC Failure Form "C" contacts
Battery Form "C" contacts

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units. Prevents deep battery discharge

Indicators (LED)

Input 120VAC is present
DC Output Powered
Battery Discharged or not connected

Power Distribution Module (PDS8):

Input

Voltage 24VDC from eFlow6NB and 12VDC from VR6
Main Fuses 10A/250V

Outputs

Voltage 12 or 24VDC individually selectable.
Output Fuses 3A/32V

Indicators (LED)

DC Output Eight (8) individual output LEDs
Green: 12VDC
Red: 24VDC

Voltage Regulator (VR6):

Input

Voltage 24VDC from eFlow6NB

Output

Voltage 12VDC
Current 6A continuous
Other Surge suppression

Voltage Regulator (VR6) (cont'd):

Indicators (LED)

Input 24VDC is present
Output Powered

Access Power Controller (ACMS8):

Input

Voltage 24VDC from eFlow6NB and 12VDC from VR6
Main Fuses 15A/32V

Outputs

Voltage 12 or 24VDC individually selectable.
Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) indepently controlled Form "C" relay outputs:
a) Fail-Safe and/or Fail-Secure power outputs.
b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated.
c) Auxiliary power outputs (unswitched).
d) Any combination of the above.

Any of the eight (8) fuse protected power outputs are selectable to follow power Input 1 or Input 2.

Individual outputs may be set to OFF position for servicing.

Output Fuses 3A/32V

Indicators (LED)

Red LEDs Outputs are triggered (relays energized)
Blue LED FACP disconnect is triggered.
Individual voltage LEDs
Green: 12VDC
Red: 24VDC

T1RAL3F8 Kit:

Agency Listings

CE European Conformity

Physical and Environmental:

Dimensions (H x W x D):

Modular 2U standard EIA 19" rack mount chassis
Enclosure: 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)
Shipping: 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)

Weights (approx.):

Product: 20 lb. (9.07 kg)
Shipping: 25 lb. (11.34 kg)

Temperature

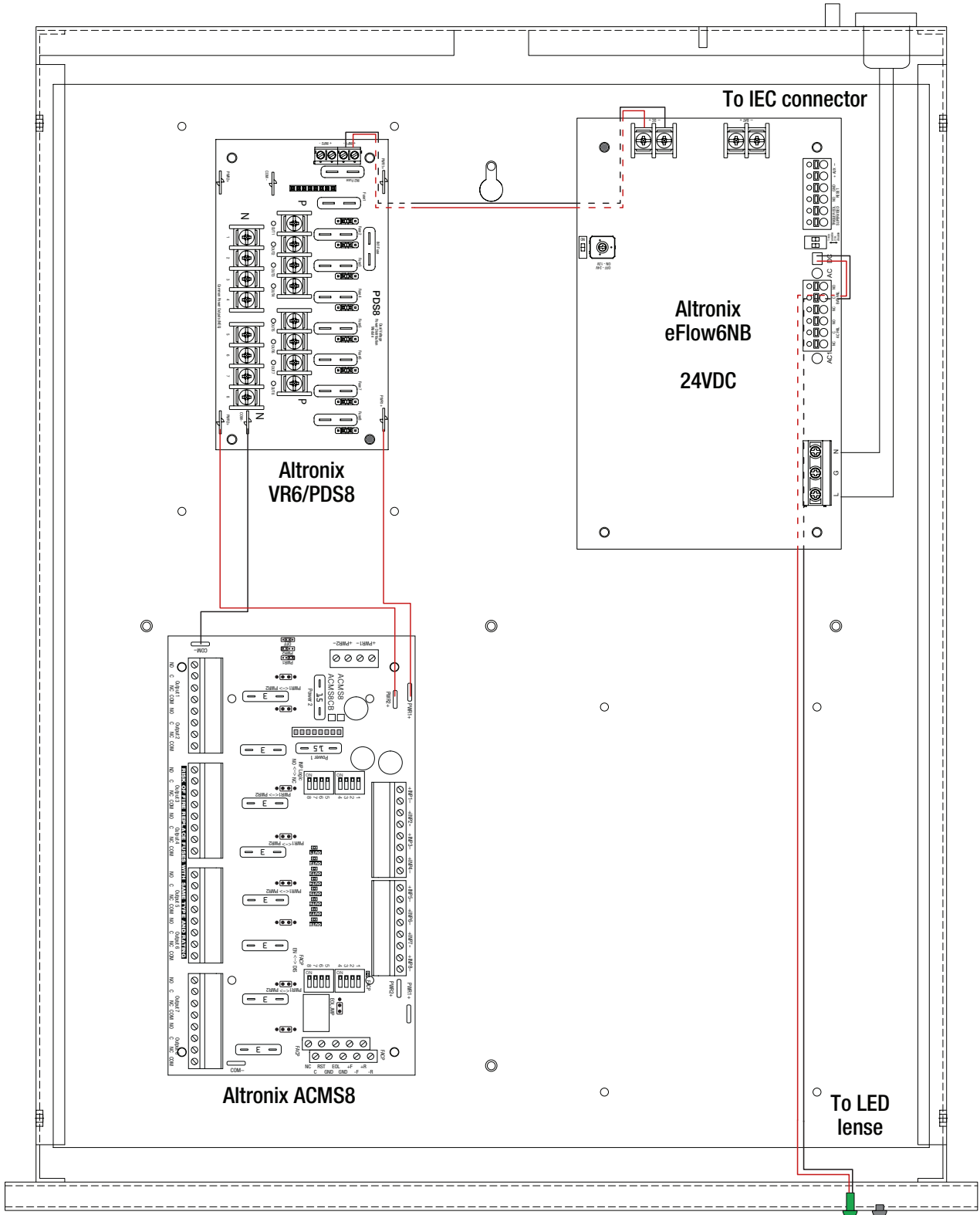
Operating: 0°C to 49°C (32°F to 120°F)
Storage: - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity

85% +/- 5%

BTU/Hr.:

87 BTU/Hr.



Dimensions and Drawing

Dimensions (H x W x D approximate)
3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)

