Altronix®

Rev. 08232022

T1RAL3F8D

Rack Access and Power Integration Solution

TROVE™

Altronix T1RAL3F8D 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 PTC dual output power distribution module and eight (8) output PTC dual output access control module. Trove simplifies board layout and wire management, reduces installation time and labor costs.



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Key Features

- Output Power:
  - Eight (8) individually selectable 12VDC or 24VDC PTC lock power outputs rated at 6A total max.
  - Fire Alarm Disconnect is individually selectable by output
  - Eight (8) individually selectable 12VDC or 24VDC PTC 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.

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Specifications

Power Supply/Charger (eFlow6RLB):

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

Outputs
- Voltage: Factory set at 24VDC
- Current: 6A continuous
- Auxiliary: Class 2 power-limited @ 1A (unswitched)
- Other: Overvoltage protection. Filtered and regulated

Battery Charging
- Type: Sealed lead acid or gel type
- Failover: Upon AC loss, instantaneous

Batteries are sold separately

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

Dual Input Power Distribution Module (PDS8CB):

Input
- Voltage: 24VDC from eFlow6RLB and 12VDC from VR6
- Input PTCs: 9A

Outputs
- Voltage: 12VDC and/or 24VDC

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

Individual outputs may be set to OFF position for servicing

- Output PTCs: 2.5A

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

Voltage Regulator (VR6):

Input
- Voltage: 24VDC from eFlow6RLB

Output
- Voltage: 12VDC
- Current: 6A continuous
- Other: Surge suppression

Indicators (LED)
- Input: 24VDC is present
- Output: Powered

Dual Input Access Power Controller (ACMS8CB):

Input
- Voltage: 24VDC from eFlow6RLB and 12VDC from VR6
- Input PTCs: 9A

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) PTC protected power outputs are selectable to follow power Input 1 or Input 2.

Individual outputs may be set to OFF position for servicing.

- Output PTCs: 2.5A

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: 0ºC to 49ºC (32ºF to 120ºF)
- Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)

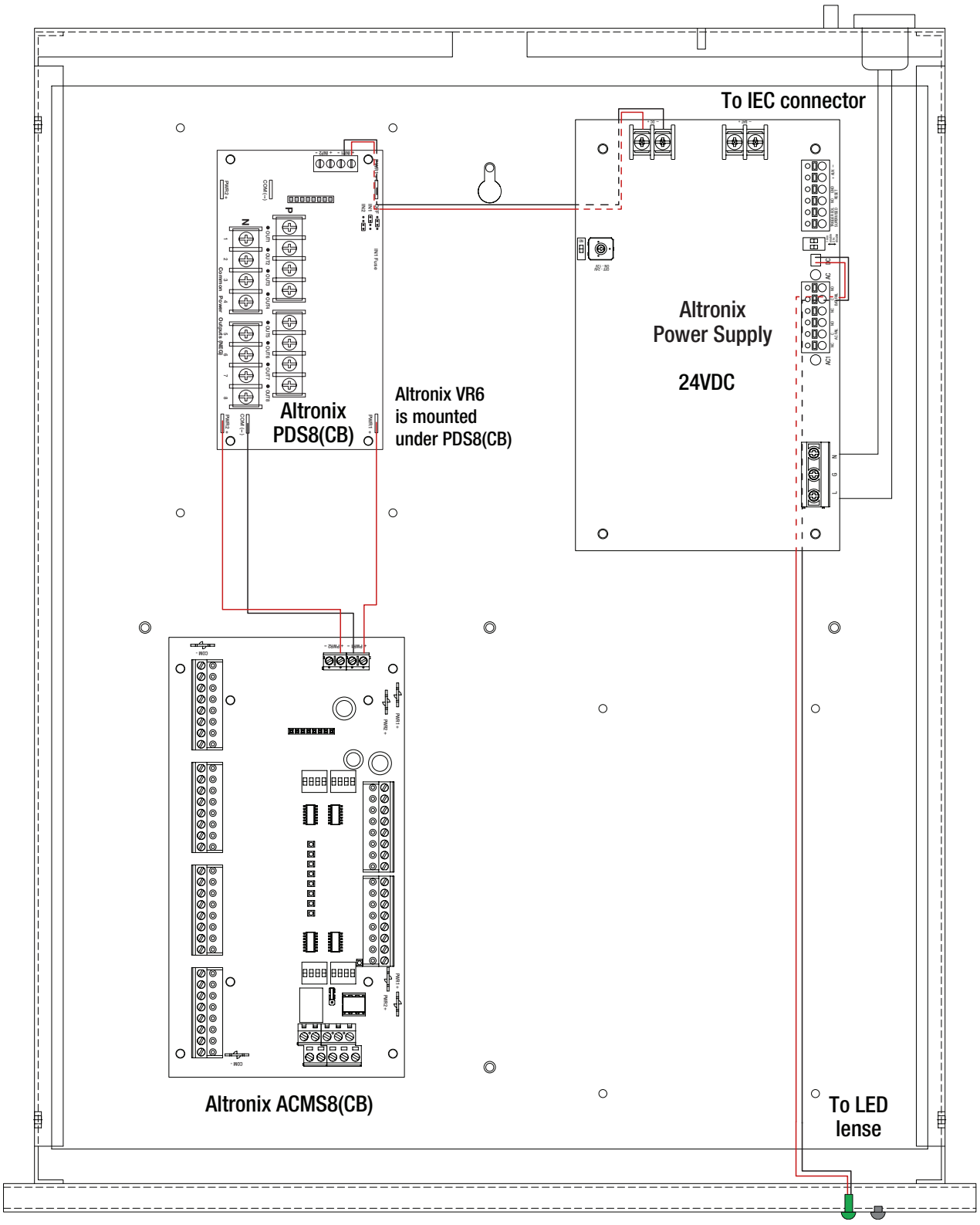
Relative Humidity: 85% +/– 5%

BTU/Hr.: 87 BTU/Hr.

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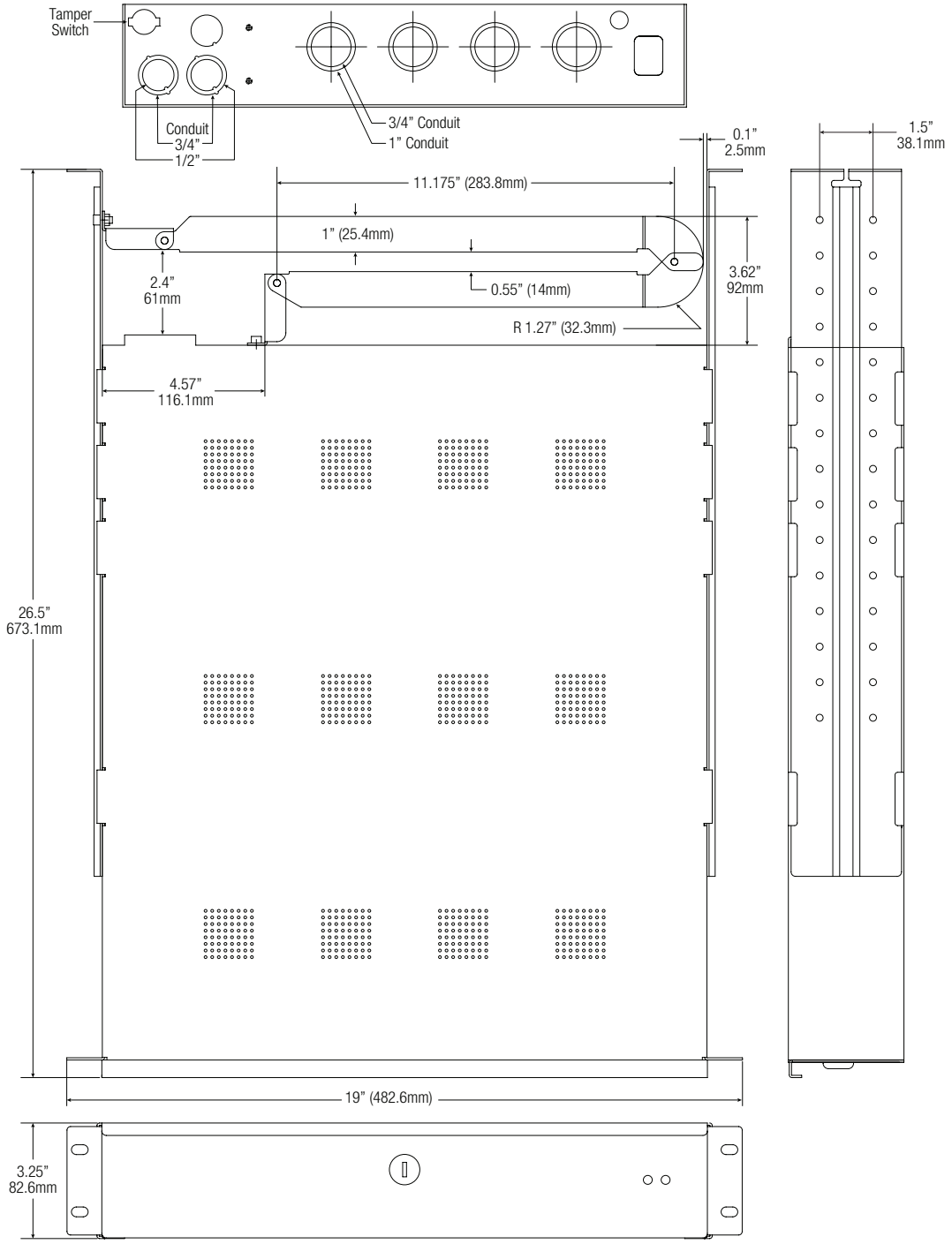
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Dimensions and Drawing

Dimensions (H x W x D approximate)

3.25” x 19.0” x 26.5” (82.6mm x 482.6mm x 673.1mm)



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