Altronix®

Rev. 04172023

# T1RAL3L8DV

## Rack Access and Power Integration Solution

TROVE™

Altronix T1RAL3L8DV 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 PTCd 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.



T1RAL3L8DV

## 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 (AL600RLBV):

**Input**

| | |
|---|---|
| Voltage | 220VAC (working range 198VAC-256VAC), 50/60Hz, 1.5A max. |
| Input Fuse | 5A/250V |

**Output**

| | |
|---|---|
| Voltage | 12VDC or 24VDC selectable |
| Current | 6A @ 12VDC or 24VDC continuous max. |
| Other | Overvoltage protection<br>Filtered and regulated |

**Battery Charging**

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

Batteries are sold separately

**Supervision**

| | |
|---|---|
| AC Failure | Form "C" contacts |
| Battery | Form "C" contacts |

**Indicators (LED)**

| | |
|---|---|
| Input | 220VAC is present |
| DC Output | Powered |
| Battery | Discharged or not connected |

### Dual Input Power Distribution Module (PDS8CB):

**Input**

| | |
|---|---|
| Voltage | 24VDC from AL600RLBV 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 AL600RLBV |

**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 AL600RLBV 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 |

### T1RAL3L8DV 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.: | 115 BTU/Hr. |

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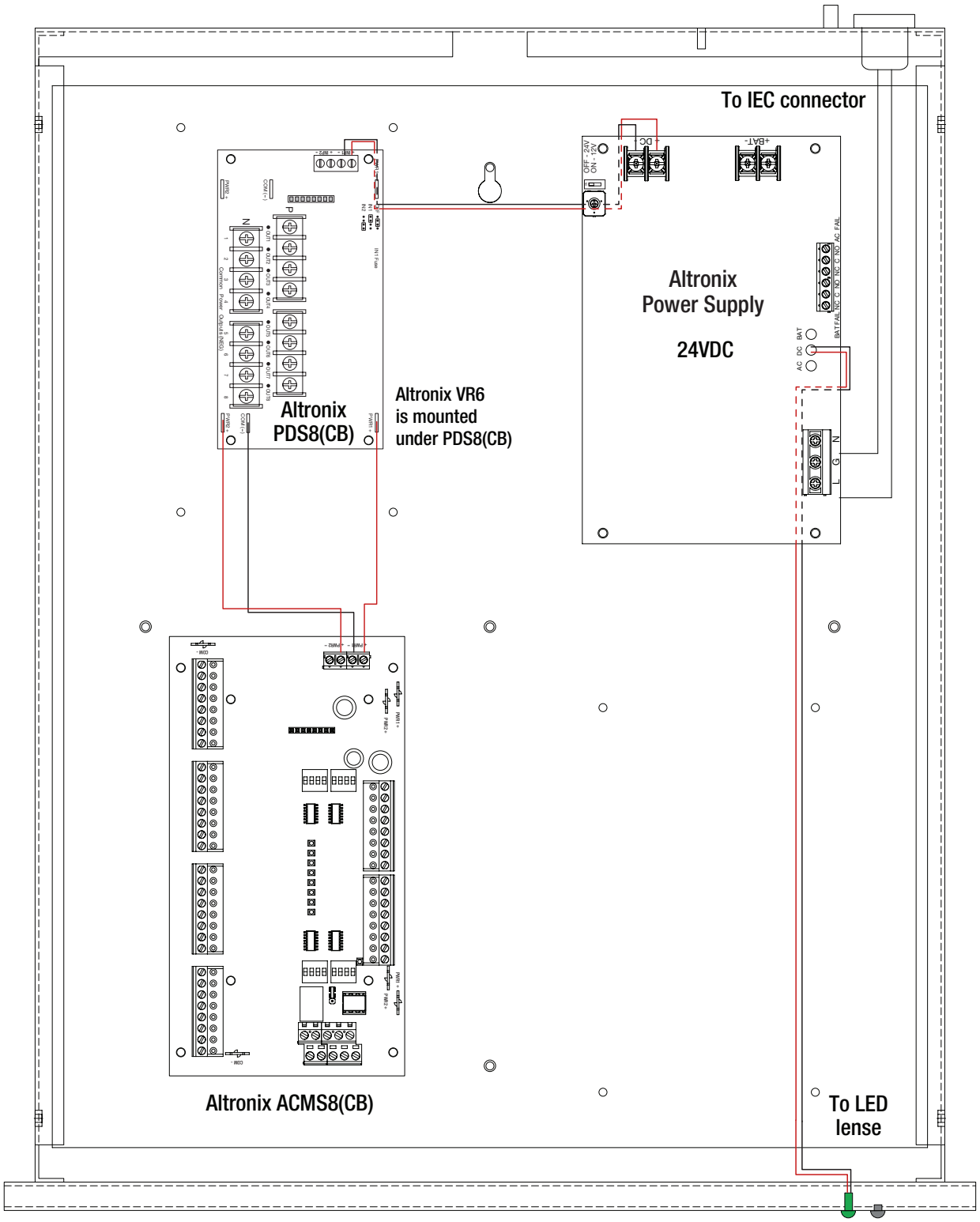

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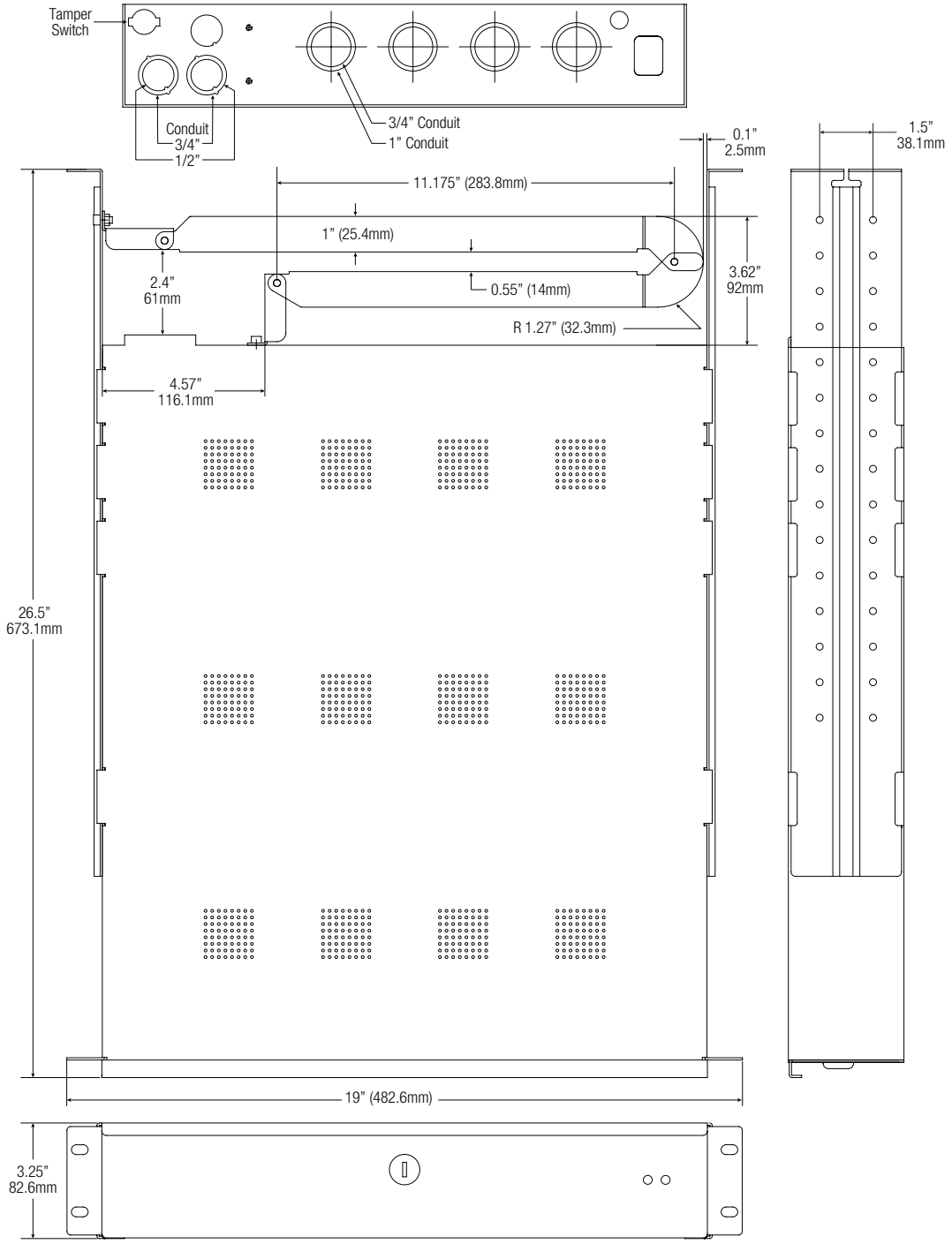
## Dimensions and Drawing

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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