

## T1VK34DV (Kit)

Access & Power Integration Solution for HID Aero/VertX

**TROVE™**

Altronix T1VK34DV kit consists of Trove1 enclosure, TV1 HID Aero/VertX/Altronix backplane with one (1) 12 or 24VDC @ 6A power supply/charger, one (1) PTC access power controller, one (1) voltage regulator and one (1) dual input PTC power distribution module. This kit also accommodates up to two (2) HID Aero/VertX modules for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

**HID®**



T1VK34D

*HID Aero/VertX modules are not included*

### Key Features

- 12 or 24VDC power supply/charger
- Accommodates up to two (2) VertX® V100, V200, V300, V1000, V2000 or Aero X100, X200, X300, X1100 modules
- Convenient knockout configuration:
  - One (1) double knockout  
1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
  - Nine (9) double knockouts  
1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to two (2) 12VDC/7AH batteries
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- CE European Conformity
- Lifetime Warranty\*

*\*Altronix Power Supply/Chargers and Sub-Assemblies only*

### Accessories (order separately)



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.



Mounting Magnet

#### MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.

## Specifications

### Power Supply/Charger (AL600XB220):

#### Input

Voltage 220VAC (working range 198VAC-256VAC),  
50/60Hz, 1.5A

Input Fuse 5A/250V

#### Output

Voltage 12VDC or 24VDC selectable

Current 6A @ 12VDC or 24VDC continuous max.

Other Overvoltage protection  
Filtered and regulated

### Battery Charging

Capacity 7AH/12VDC (2 within enclosure)  
40AH/65AH (requires separate enclosure)

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

### Access Power Controller (ACM4CB):

#### Input

Voltage 24VDC from AL600XB220

Input PTC 9A

#### Outputs

Voltage 24VDC

Four (4) independently controlled PTC outputs:

a) Fail-Safe and/or Fail-Secure power outputs  
Form "C" Relays rated 28VAC or VDC @ 2.5A

b) Auxiliary power outputs (unswitched)

c) Any combination of the above

Output PTCs 2.5A

### Indicators (LED)

Red LEDs Outputs are triggered (relays energized)

Green LED FACP disconnect is triggered

### Voltage Regulator (VR6):

#### Input

Voltage 24VDC from AL600XB220

#### Output

Voltage 12VDC

Current 6A continuous

Other Surge suppression

### Indicators (LED)

Input 24VDC is present

Output Powered

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

#### Input

Voltage 24VDC from AL600XB220 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

### T1VK34DV Kit:

### Agency Listings

CE European Conformity

### Physical and Environmental:

#### Dimensions (H x W x D)

Enclosure:

18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)

Shipping:

21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)

#### Weight (approx.)

Product: 15.5 lb. (7.0 kg)

Shipping: 19.5 lb. (8.9 kg)

#### Temperature

Operating 0°C to 49°C (32°F to 120°F)

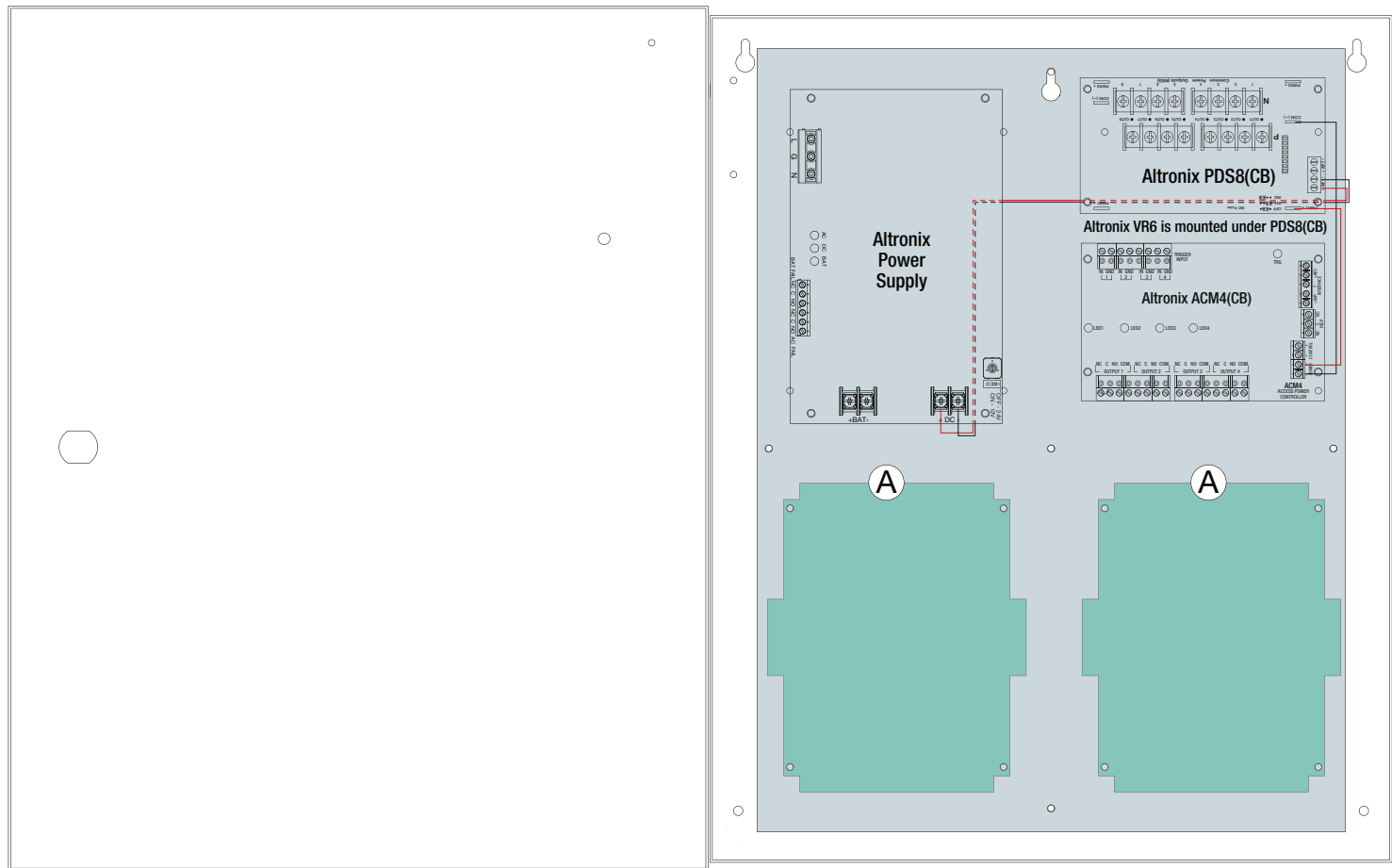
Storage - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity 85% +/- 5%

BTU/Hr. (approx.): 87 BTU/Hr.

**Access Controller Position Chart for the Following Models:**

HID Aero/VertX	Pem Mounting
V100, V200, V300, V1000, V2000, X100, X200, X300, X1100	(A)



## Dimensions and Drawing

Dimensions (H x W x D approximate)

18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 118mm)

