

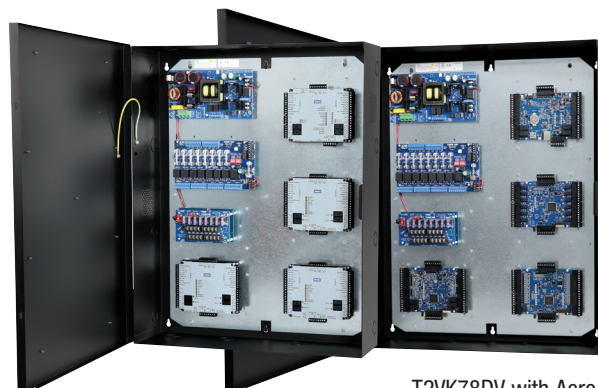
**T2VK78DV (Kit)**

Access &amp; Power Integration Solution for HID Aero/VertX

**TROVE™**

Altronix T2VK78DV kit consists of Trove2 enclosure, TV2 HID Aero/VertX/Altronix backplane with one (1) 24VDC @ 10A 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 four (4) HID Aero/VertX modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2VK78DV with Aero boards in cases

T2VK78DV with Aero boards no cases

*HID Aero/VertX modules are not included***Key Features**

- 24VDC power supply/charger
- Accommodates up to four (4) VertX® V100, V200, V300, V1000, V2000 or Aero X100, X200, X300, X1100 modules
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- CE European Conformity
- Lifetime Warranty\*

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

**Specifications****Power Supply (AL1024XB2V):****Input**

Voltage	220VAC (working range 198VAC-256VAC), 50/60Hz, 2.5A
Input Fuse	5A/250V

**Outputs**

Voltage	24VDC
Current	10A @ 24VDC continuous max
Other	Overvoltage protection Filtered and regulated

**Battery Charging**

Capacity	12VDC/12AH (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

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

Voltage	12VDC from VR6 and 24VDC from AL1024XB2V
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 AL1024XB2V
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**Output**

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

**Indicators (LED)**

Input	24VDC is present
Output	Powered

**Access Power Controller (ACM8CB):****Input**

Voltage	24VDC from AL1024XB2V
Input Fuse	10A/250V

**Outputs**

Voltage	24VDC
Eight (8) 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

**T2VK78DV Kit:****Agency Listings**

CE	European Conformity
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**Physical and Environmental:****Dimensions (H x W x D)**

Enclosure:	27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)
Shipping:	32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

**Weight (approx.)**

Product:	47 lb. (21.3 kg)
Shipping:	51.35 lb. (23.3 kg)

**Temperature**

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

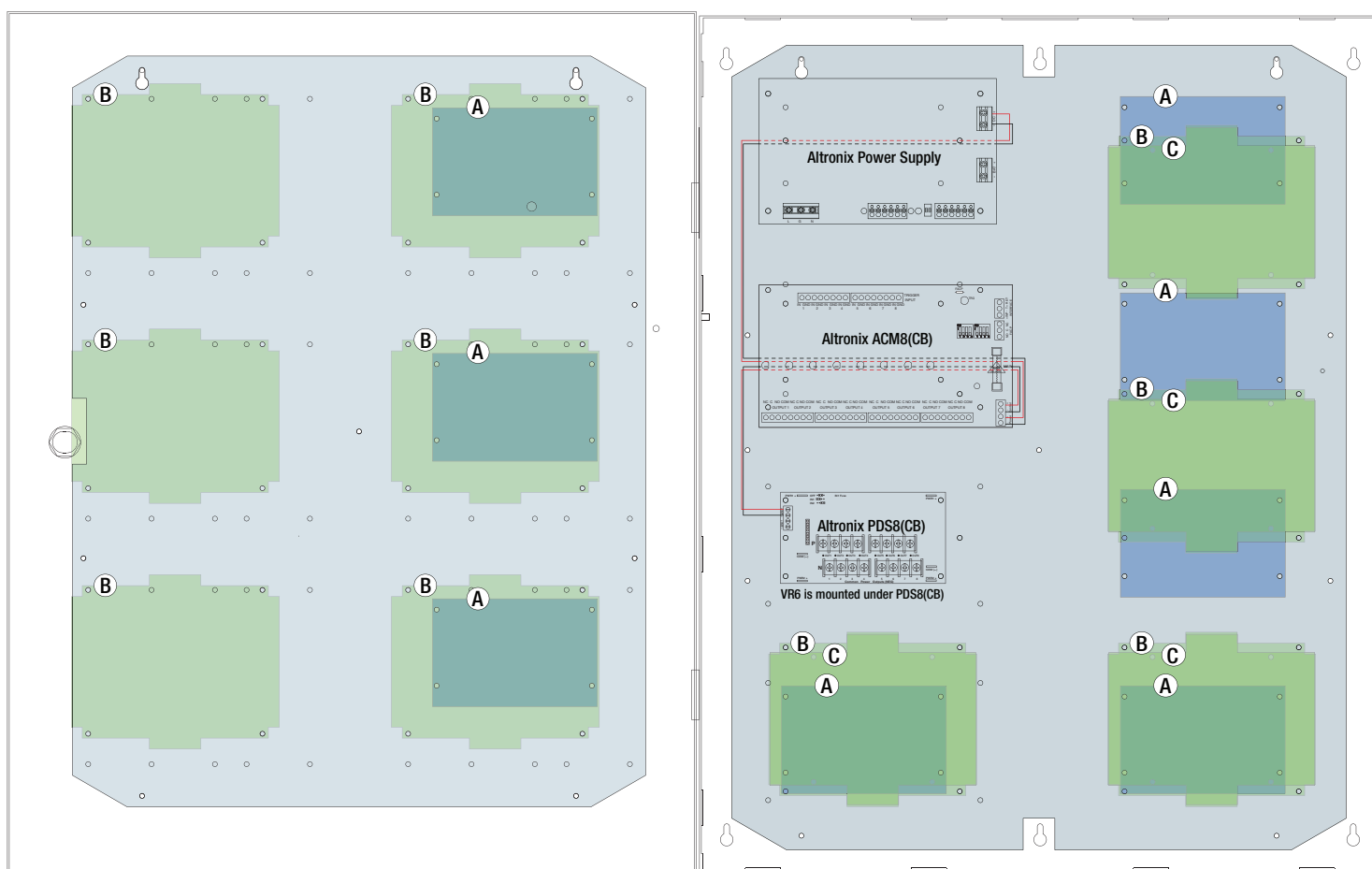
Relative Humidity	85% +/- 5%
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BTU/Hr. (approx.):	145 BTU/Hr.
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### Access Controller Position Chart for the Following Models:

Altronix / HID Aero/VertX	Pem Mounting
ACM4, ACM4CB, ACM8, ACM8CB, ACMS8, ACMS8CB, ACMS12, ACMS12CB, LINQ8ACM, LINQ8ACMCB, LINQ8PD, LINQ8PDCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6, GB1 (accommodates Genetec Synergis Cloud Link)	(A)
Aero™: X100, X200, X300, X1100	(B)
Aero™: X100, X200, X300, X1100 (without case on TV2 only)	(C)

TMV2 Door Backplane (Order Separately)



**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.



BR1

**BR1 - Sub-Assembly Mounting Bracket**

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

Trove2BWC  
with  
batteriesTrove2BWC  
with  
wires**TROVE2BWC - Battery/Wire Trough Enclosure**

Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

## Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

