Altronix®

Rev. 05312023

T2CVK33F10Q

Access & Power Integration Solution for CDVI

TROVE™

Altronix T2CVK33F10Q kit consists of Trove2 enclosure, TCV2 CDVI/Altronix backplane with two (2) 12 or 24VDC @ 6A power supply/chargers, one (1) network communication module and two (2) PTC protected five (5) output Power Distribution Modules with Fire Alarm Interface. This kit also accommodate various combinations of CDVI Atrium A22K/A22NB/ ADH10 boards for up to ten (10) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

CDVI

T2CVK33F10Q

CDVI boards are not included

Key Features

- 12 or 24VDC power supply/chargers
- Accommodates up to five (5) CDVI Atrium A22K/A22NB/ADH10 boards
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Agency Listings:
  - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
    - UL: UL294 - Access Control System
    - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems
  - CE European Conformity
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty*

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

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Specifications

Two (2) Power Supply/Chargers (eFlow6NB):

Input

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

Outputs

Voltage	12VDC or 24VDC selectable
Current	6A continuous max.
Auxiliary	Power-limited @ 1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12AH/12VDC (4 within enclosure) 40AH/65AH (requires separate enclosure)
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 71-73% for 12V units and 70-75% for 24V units (depending on the power supply)
Prevents deep battery discharge

Indicators (LED)

Input	120VAC is present
DC Output	Powered

Network Communication Module (LINQ2):

Status Monitoring

AC status; Output current draw; Unit's temperature;
DC output voltage; Low Battery/Battery presence detection
Input trigger state change; Output (relay and power supply) state change

Programming

Battery service date indication
Programmable via USB or web browser
Automated timed events:
- Control output relays and power supply via flexible timing parameter

Reporting

Programmable dashboard notifications
E-mail notification selectable by event
Event log tracks history (100+ events)

Indicators (LED)

Blue LED:	Power ON

Two (2) Power Distribution Modules with Fire Alarm Interface (MOM5):

Input

Voltage	12VDC or 24VDC from eFlow6NB

Outputs

Five (5) individual PTC protected auto-resettable power-limited outputs

Voltage	12VDC or 24VDC.
Current	2.5A continuos supply current Current limit is 2A per output
Other	Short circuit and thermal overload protection. Filtered and regulated
Output PTCs	2.5A

Fire Alarm Interface

Fire Alarm Panel or Access Control System trigger inputs N.O. or N.C. supervised trigger input and polarity reversal trigger input.

Supervision

Power Failure	Form "C" contact rated 1A 28VDC/115VAC
Trigger	Form "C" contact rated 1A 28VDC/115VAC

Indicators (LED)

Input	Power is present
Input Trigger	On
Outputs (Individual LEDs)	Output fail

T2CVK33F10Q Kit:

Agency Listings

All components of this Trove kit are UL Listed sub-assemblies
Please refer to the corresponding Sub-Assembly Installation Guides for further information

CE	European Conformity

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:	55.1 lb. (25 kg)
Shipping:	60.1 lb. (27.3 kg)

Temperature

Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	12VDC: 74 BTU/Hr. 24VDC: 148 BTU/Hr. 12VDC and 24VDC: 111 BTU/Hr.

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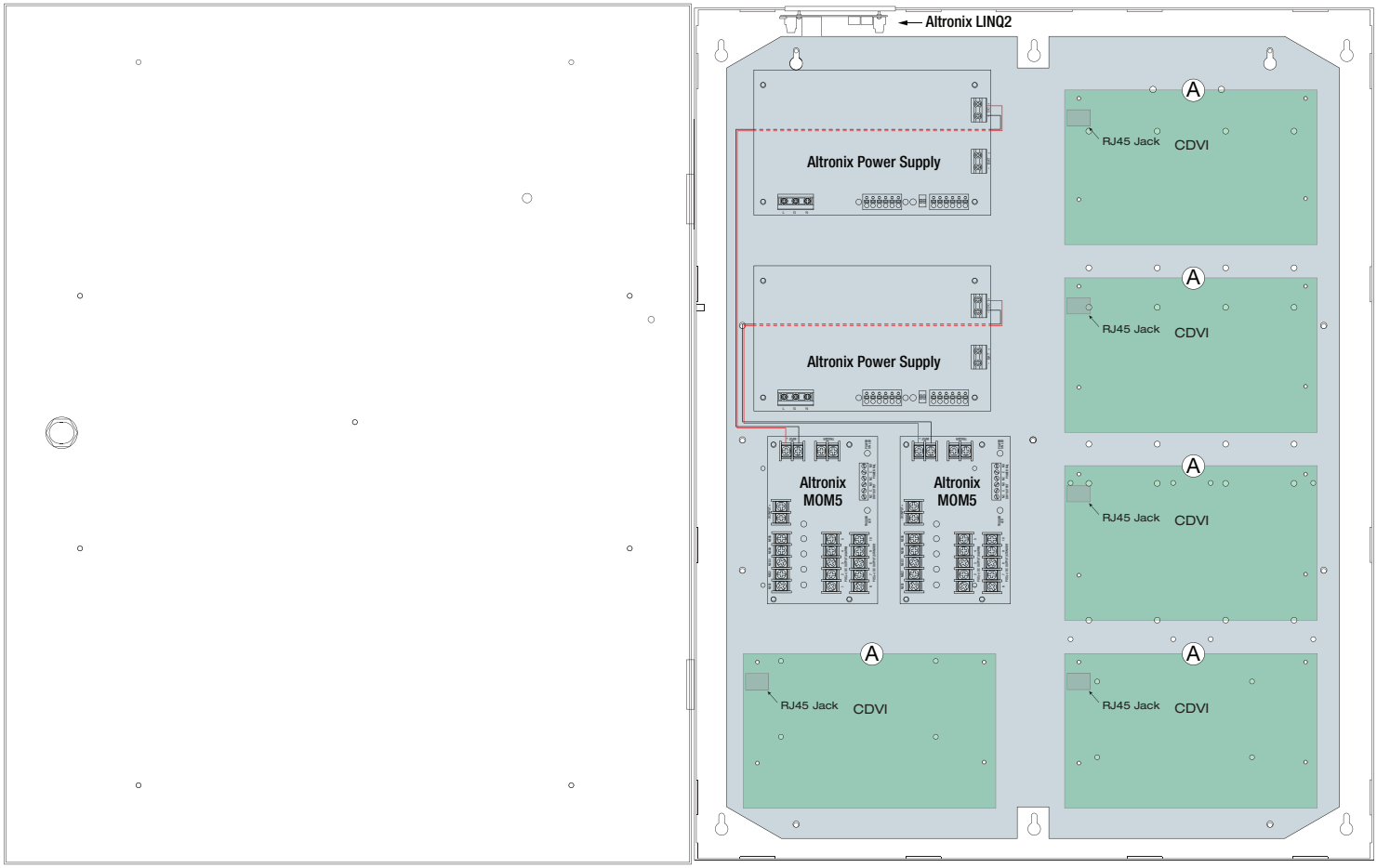
Access Controller Position Chart for the Following Models:

CDVI	Pem Mounting
A22K1NB, A22NB, ADH10	A



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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 batteries

Trove2BWC 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.

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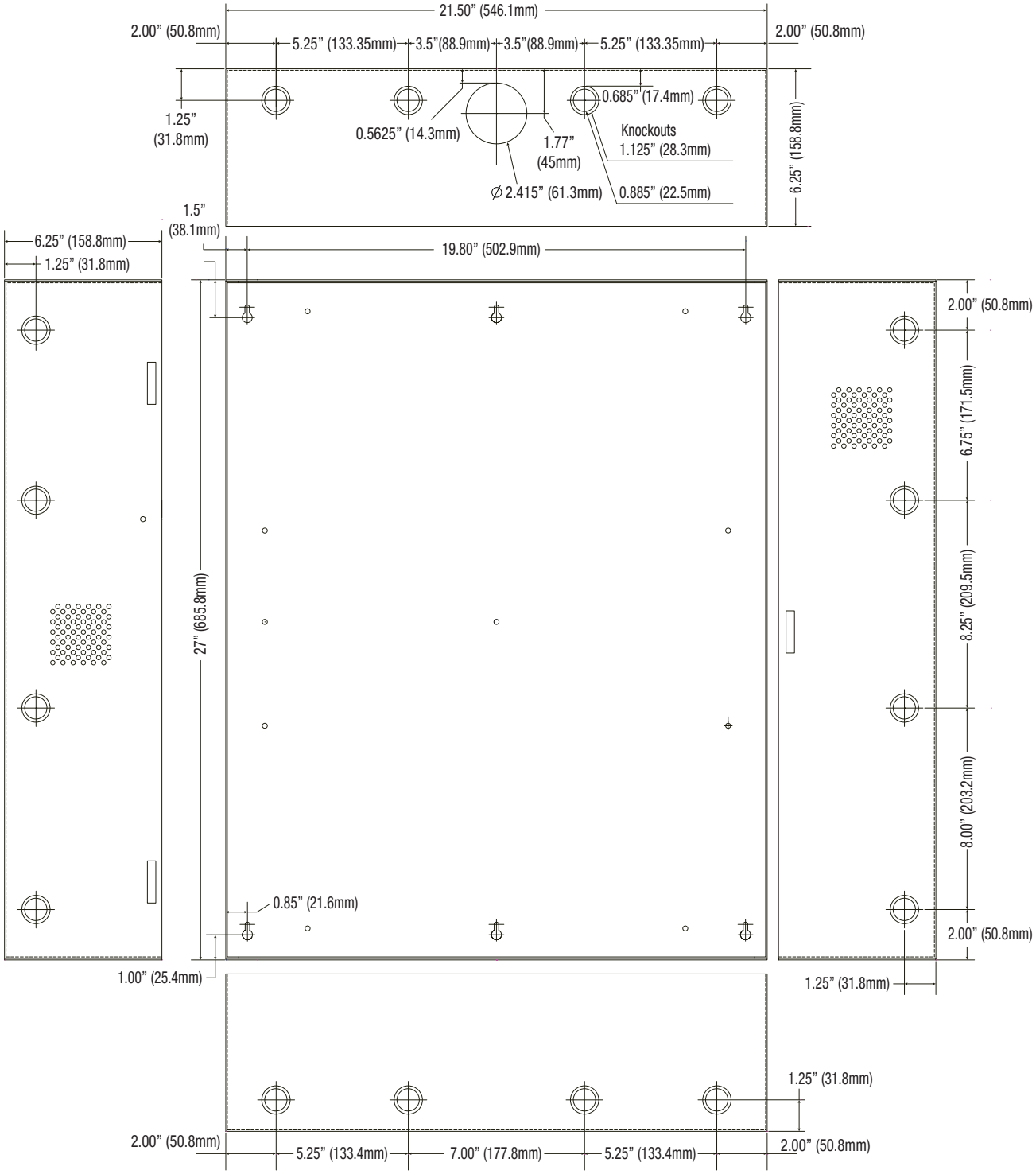
Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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