

T2CRK75F12 (Kit)

Access & Power Integration Solution for Rhombus

Altronix T2CRK75F12 kit consists of Trove2 enclosure, TCV2 Rhombus/Altronix backplane with one (1) 24VDC @ 10A and one (1) 12VDC @ 10A power supply/charger, one (1) twelve (12) fuse protected dual input/output access control module, and one (1) sixteen (16) fuse protected dual input/output power distribution module. This kit also accommodates up to three (3) Rhombus DC20M for up to twelve (12) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



TROVE™



T2CRK75F12

Rhombus boards are not included

Key Features

- 24VDC & 12VDC power supply/chargers
- Accommodates three (3) Rhombus DC20M 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)
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- CE European Conformity
- Lifetime Warranty*

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

Specifications

Power Supply/Charger 1 (eFlow104NB):

Input

Voltage	120VAC, 60Hz, 4.5A
Input Fuse	6.3A/250V

Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Oversvoltage protection. Filtered and regulated

Power Supply/Charger 2 (eFlow102NB):

Input

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

Output

Voltage	12VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Oversvoltage protection. Filtered and regulated

Both Power Supplies:

Battery Charging

Capacity	12VDC/12AH (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)

AC Input	120VAC is present
DC Output	Powered
Battery	Discharged or not connected

Dual Input Power Distribution Module (PDS16):

Input

Voltage	24VDC from eFlow104NB and 12VDC from eFlow102NB
Input Fuses	15A/32V

Outputs

Voltage	12VDC and/or 24VDC
Any of the sixteen (16) power outputs are selectable to follow power Input 1 or Input 2	
Individual outputs may be set to OFF position for servicing	
Output Fuses	3A/32V

Indicators (LED)

DC Output	Sixteen (16) individual output LEDs
Green:	12VDC
Red:	24VDC

Dual Input Access Power Controller (ACMS12):

Input

Voltage	24VDC from eFlow104NB and 12VDC from eFlow102NB
Input Fuses	15A/32V

Outputs

Voltage	12 or 24VDC individually selectable
Twelve (12) selectable 12VDC - 24VDC independently controlled outputs or twelve (12) 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 twelve (12) fuse protected power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output Fuses	3A/32V
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Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Blue LED	FACP disconnect is triggered
Individual voltage LEDs:	
Green:	12VDC
Red:	24VDC

T2CRK75F12 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" (826mm x 673mm x 283mm)

Weight (approx.)

Product	49.8 lb. (22.59 kg).
Shipping	53.55 lb. (24.29 kg).

Temperature

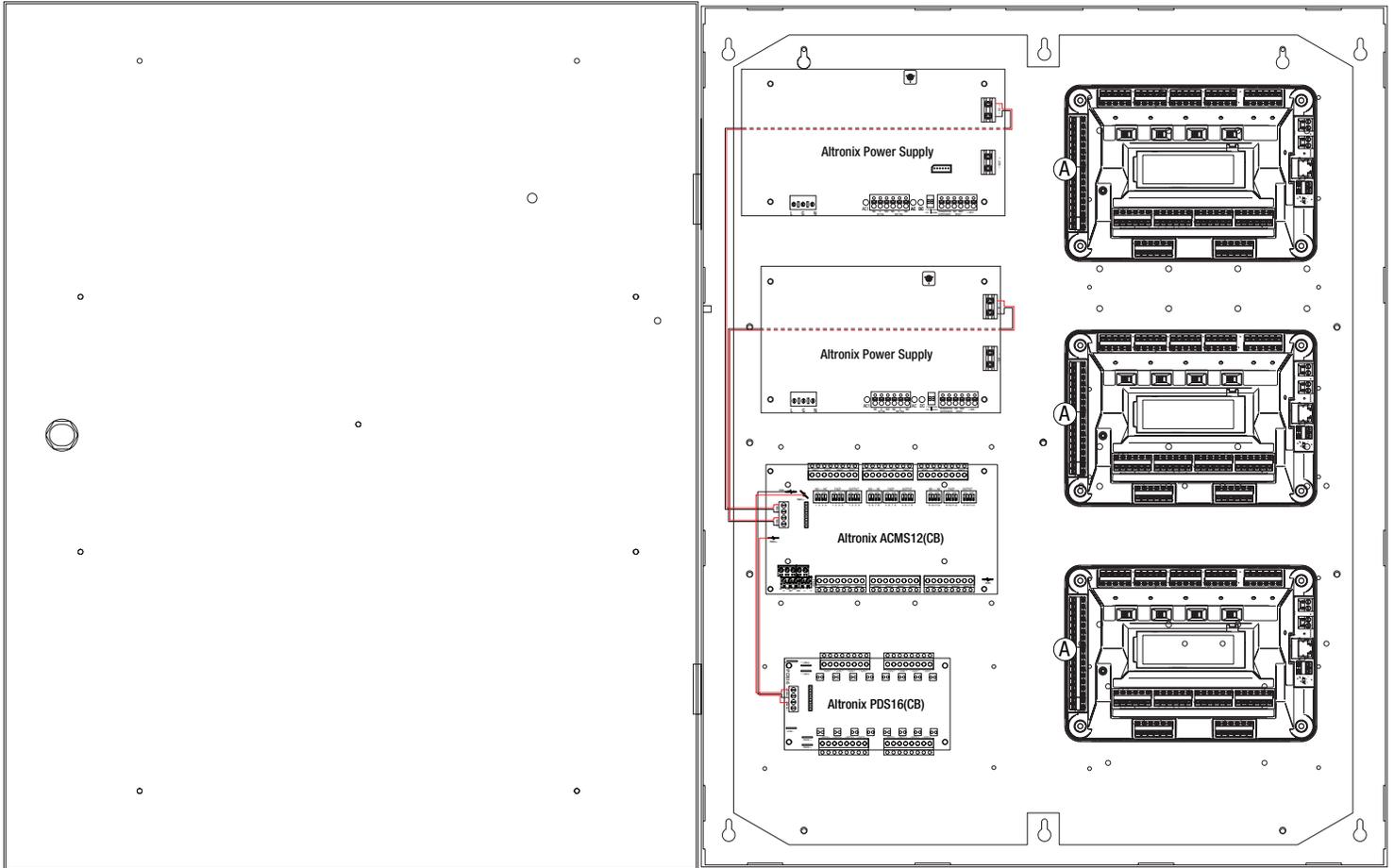
Operating	0°C to 49°C (32°F to 120°F).
Storage	- 20°C to 70°C (- 4°F to 158°F).

Relative Humidity: 85% +/- 5%.

BTU/Hr (approx.): 184 BTU/Hr.

Access Controller Position Chart for the Following Models:

Altronix/Rhombus	Pem Mounting
DC20M	(A)



Accessories (order separately)



LINQ2

LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



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, EFlow102NB, 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.

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)

