

## T2CRK7F8S (Kit)

Access & Power Integration Solution for Rhombus



Altronix T2CRK7F8S kit consists of Trove2 enclosure, TCV2 backplane with one (1) 24VDC @ 10A power supply/charger, one (1) eight (8) fuse protected dual input/output access control module, one (1) 12VDC voltage regulator and one (1) eight (8) fuse protected dual input/output power distribution module. This kit also accommodates up to two Rhombus DC20M for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2CRK7F8S

*Rhombus boards are not included*

### Key Features

- 24VDC power supply/charger
- Accommodates two (2) 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)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- 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
- Lifetime Warranty\*

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

**Specifications**

**Power Supply/Charger (eFlow104NB):**

**Input**

Voltage 120VAC, 60Hz, 4.5A max.  
 Input Fuse 6.5A/250V

**Outputs**

Voltage 24VDC  
 Current 10A continuous  
 Auxiliary Class 2 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 70-75% for 24V units. Prevents deep battery discharge

**Indicators (LED)**

Input 120VAC is present  
 DC Output Powered

**Dual Input Access Power Controller (ACMS8):**

**Input**

Voltage 24VDC from eFlow104NB and 12VDC from VR10  
 Input Fuses 15A/32V

**Outputs**

Voltage 12VDC and/or 24VDC  
 Eight (8) selectable independently controlled outputs or eight (8) independently 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) 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

**Indicators (LED)**

Red LEDs Outputs are triggered (relays energized)  
 Blue LED FACP disconnect is triggered

**Individual voltage LEDs:**

Green: 12VDC  
 Red: 24VDC

**Voltage Regulator (VR10):**

**Input**

Voltage 24VDC from eFlow104NB

**Output**

Voltage 12VDC  
 Current 10A continuous  
 Other Surge suppression

**Indicators (LED)**

Input 24VDC is present  
 Output Powered

**Dual Input Power Distribution Module (PDS8):**

**Input**

Voltage 24VDC from eFlow104NB and 12VDC from VR10  
 Input Fuses 10A/32V

**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 Fuses 3A/32V

**Indicators (LED)**

DC Output Eight (8) individual output LEDs  
 Green: 12VDC  
 Red: 24VDC

**T2CRK7F8S 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" (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**

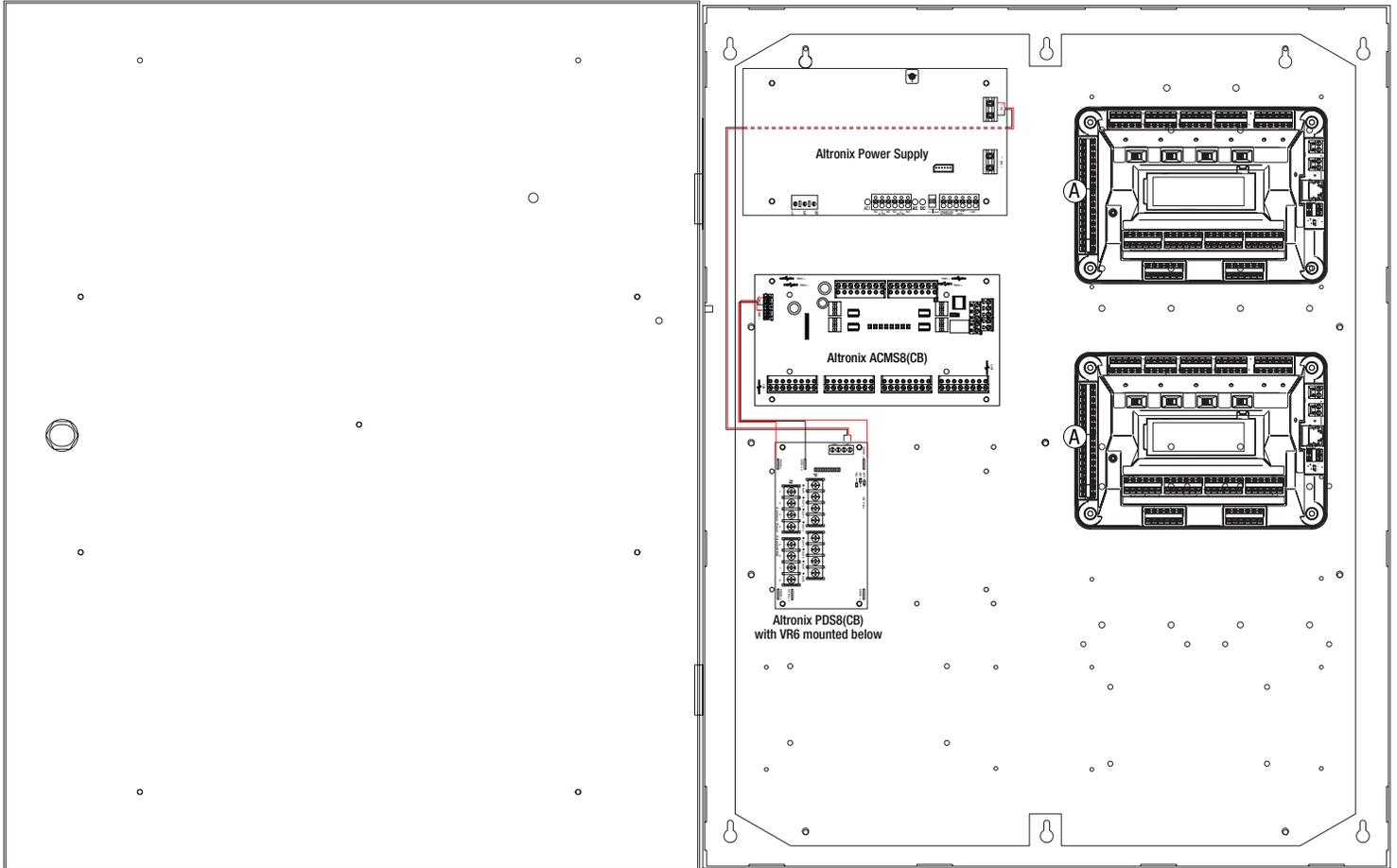
85% +/- 5%.

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

77 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, VR10, 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)

