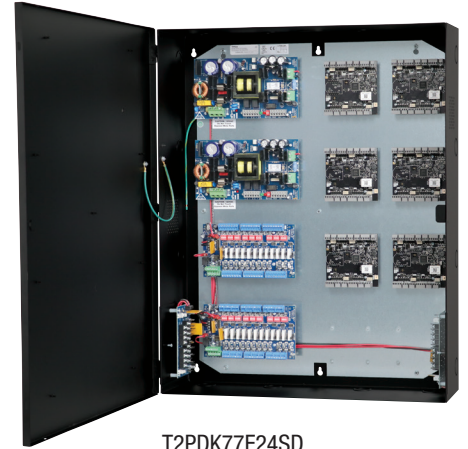


# T2PDK77F24SD (Kit)

Access & Power Integration Solution for PDK Red™



Altronix T2PDK77F24SD kit consists of Trove2 enclosure, TPD2 Pdk Red™/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) twelve (12) PTC protected dual input/output access control modules, two (2) eight (8) PTC protected dual input/output power distribution modules and two (2) 12VDC voltage regulator. This kit also accommodates up to six (6) red4 modules for up to twenty-four (24) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2PDK77F24SD

*PDK boards are not included*



## Key Features

- 24VDC power supply/chargers
- Accommodates Pdk Red™ modules: up to eight (8) red1, red2, or six (6) red4
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision:
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Agency Listings:
  - Please refer to the Sub-Assembly Installation Guides for further information
  - CE European Conformity
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty\*

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

**Specifications**

**Two (2) Power Supply/Chargers (eFlow104NB):**

**Input**  
 Voltage 120VAC, 60Hz, 9A  
 Input Fuse 6.3A/250V

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

**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 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

**Two (2) Dual Input Access Power Controllers (ACMS12CB):**

**Input**  
 Voltage 24VDC from eFlow104NB and 12VDC from VR6  
 Input PTCs 9A

**Outputs**  
 Voltage 12 or 24VDC individually selectable  
 Twelve (12) selectable 12VDC - 24VDC independently controlled outputs or twelve (12) 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 twelve (12) PTC protected power outputs are selectable to follow power Input 1 or Input 2  
 Individual outputs may be set to OFF position for servicing  
 Output PTCs 3A/32V

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

**Two (2) Voltage Regulator (VR6):**

**Input**  
 Voltage 24VDC from eFlow104NB

**Output**  
 Voltage 12VDC  
 Current 6A continuous  
 Other Surge suppression

**Indicators (LED)**  
 Input 24VDC is present  
 Output Powered

**Two (2) Dual Input Power Distribution Modules (PDS8CB):**

**Input**  
 Voltage 24VDC from eFlow104NB 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 3A/32V

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

**T2PDK77F24S Kit:**

**Agency Listings**  
 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.):** 290 BTU/Hr.

**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, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

Trove2BWC  
with  
batteries



Trove2BWC  
with  
wires

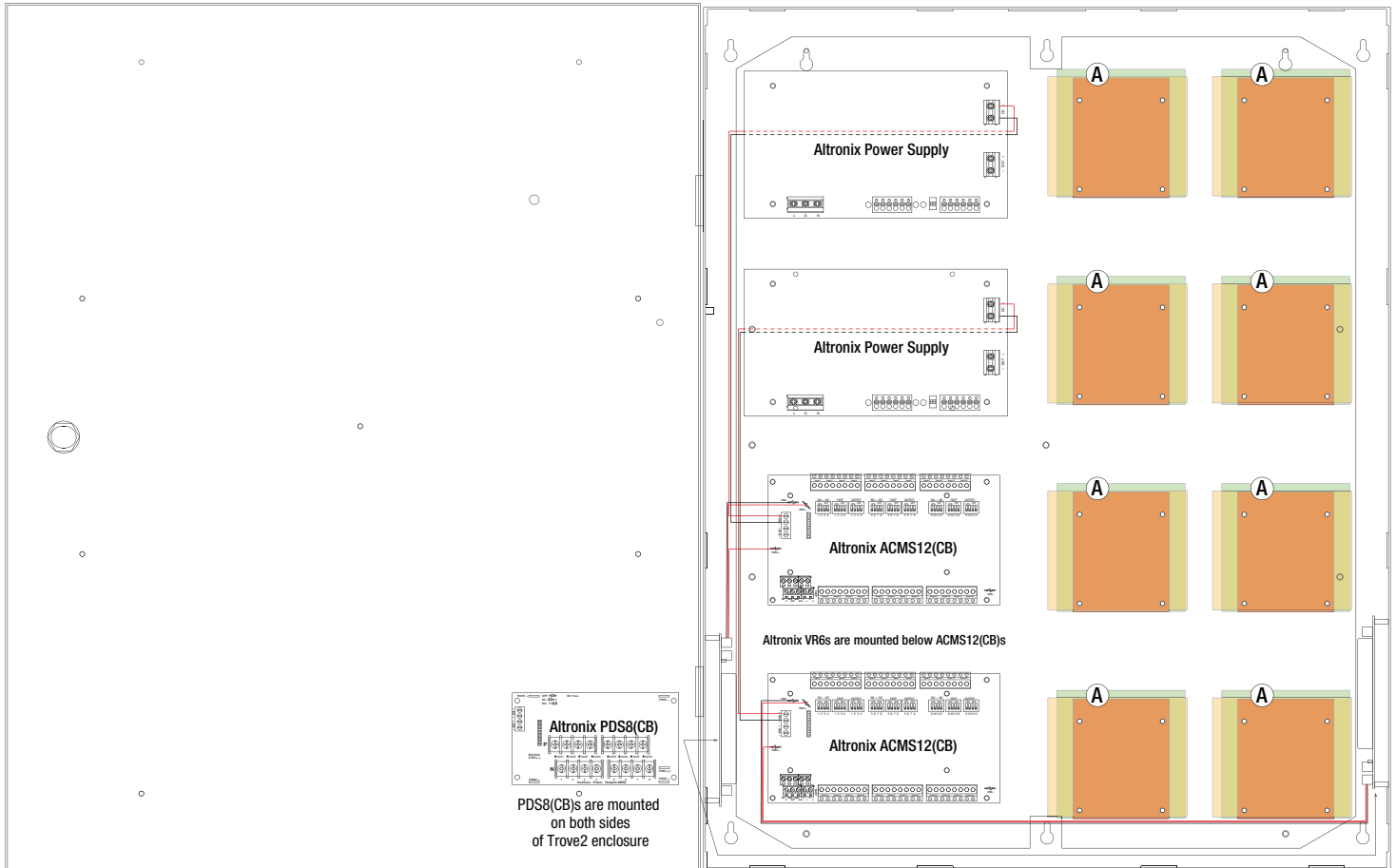


**TROVE2BWC - Battery/Wire Trough Enclosure**

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.

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

PDK	Pem Mounting
red1, red2, red4	(A)



**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)

