

## T3BV77F24S (Kit)

Access and Power Integration Solution for Brivo



T3BV77F24S kit consists of Trove3 enclosure and TBV3 Brivo/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) 12VDC voltage regulators, two (2) twelve (12) fuse protected dual input/output access control modules and two (2) sixteen (16) fuse protected dual input/output power distribution modules. This kit also accommodates various combinations of Brivo boards for up to twenty-four (24) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T3BV77F24S

*Brivo boards are not included*

### Key Features

- 24VDC power supply/chargers
- Accommodates following Brivo boards:
  - One (1) ACS6000-MBE
  - Twelve (12) ACS6100-DB or ACS6100-I/O
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockout 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 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 Supplies (eFlow104NB):

<b>Input</b>	
Voltage	120VAC, 60Hz, 4.5A max.
Input Fuse	6.3A/250V
<b>Outputs</b>	
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 (ACMS12):

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

#### Outputs

Twelve (12) selectable 12VDC - 24VDC independently controlled outputs or twelve (12) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated
- Auxiliary power outputs (unswitched)
- 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)
Green LED	FACP disconnect is triggered

#### Two (2) Voltage Regulators (VR10):

<b>Input</b>	
Voltage	24VDC from eFlow104NB
<b>Output</b>	
Voltage	12VDC
Current	10A continuous
Other	Surge suppression
<b>Indicators (LED)</b>	
Input	24VDC is present
Output	Powered

#### Two (2) Dual Input Power Distribution Modules (PDS16):

<b>Input</b>	
Voltage	24VDC from eFlow104NB and 12VDC from VR10
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

#### T3BV77F24SD Kit:

##### Agency Listings

CE	European Conformity
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##### Physical and Environmental

Dimensions (H x W x D)	
Enclosure:	36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)
Shipping:	40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

##### Weight (approx.)

Product:	84.2 lb. (38.2 kg)
Shipping:	97.5 lb. (44.22 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.): 217 BTU/Hr.

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

Altronix / Brivo	Pem Mounting
ACS6000-MBE	(A)
ACS6100-DB, ACS6100-I/O	(B)



### 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

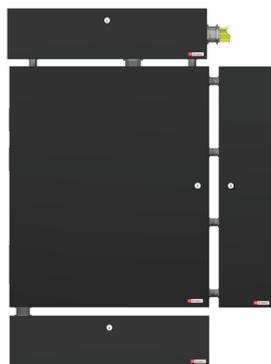
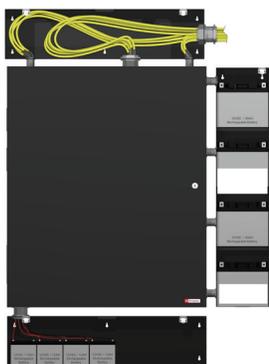
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



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.



#### TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

Typical battery/wiring setup with Trove3 Enclosure (not included)

**Dimensions and Drawing**

Dimensions (H x W x D approximate)

36.12" x 30.12" x 7.06" (917.5mm x 768.1mm x 179.3mm)

