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T2BV77F12SD (Kit)
Access and Power Integration Solution for Brivo

A|Altronix
TROVE™

T2BV77F12SD kit consists of Trove2 enclosure and TBV2 Brivo/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, two (2) 12VDC voltage regulators, twelve (12) PTC protected dual input/output access control module and sixteen (16) PTC protected dual input/output power distribution module. This kit also accommodates various combinations of Brivo boards for up to twelve (12) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

T2BV77F12SD

Brivo boards are not included

Key Features

- 24VDC power supply/chargers
- Accommodates following Brivo boards:
  - One (1) ACS6000-MBE
  - Five (5) ACS6100-DB or ACS6100-I/O
- 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
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

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

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

Outputs
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

Dual Input Access Power Controller (ACMS12CB):

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

Outputs
Voltage	12VDC and/or 24VDC

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) 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	2.5A

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

Dual Input Power Distribution Module (PDS16CB):

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

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 PTCs	2.5A

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

Two (2) Voltage Regulators (VR6):

Input
Voltage	24VDC from eFlow104NB

Output
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

T2BV77F12SD Kit:

Agency Listings
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.)
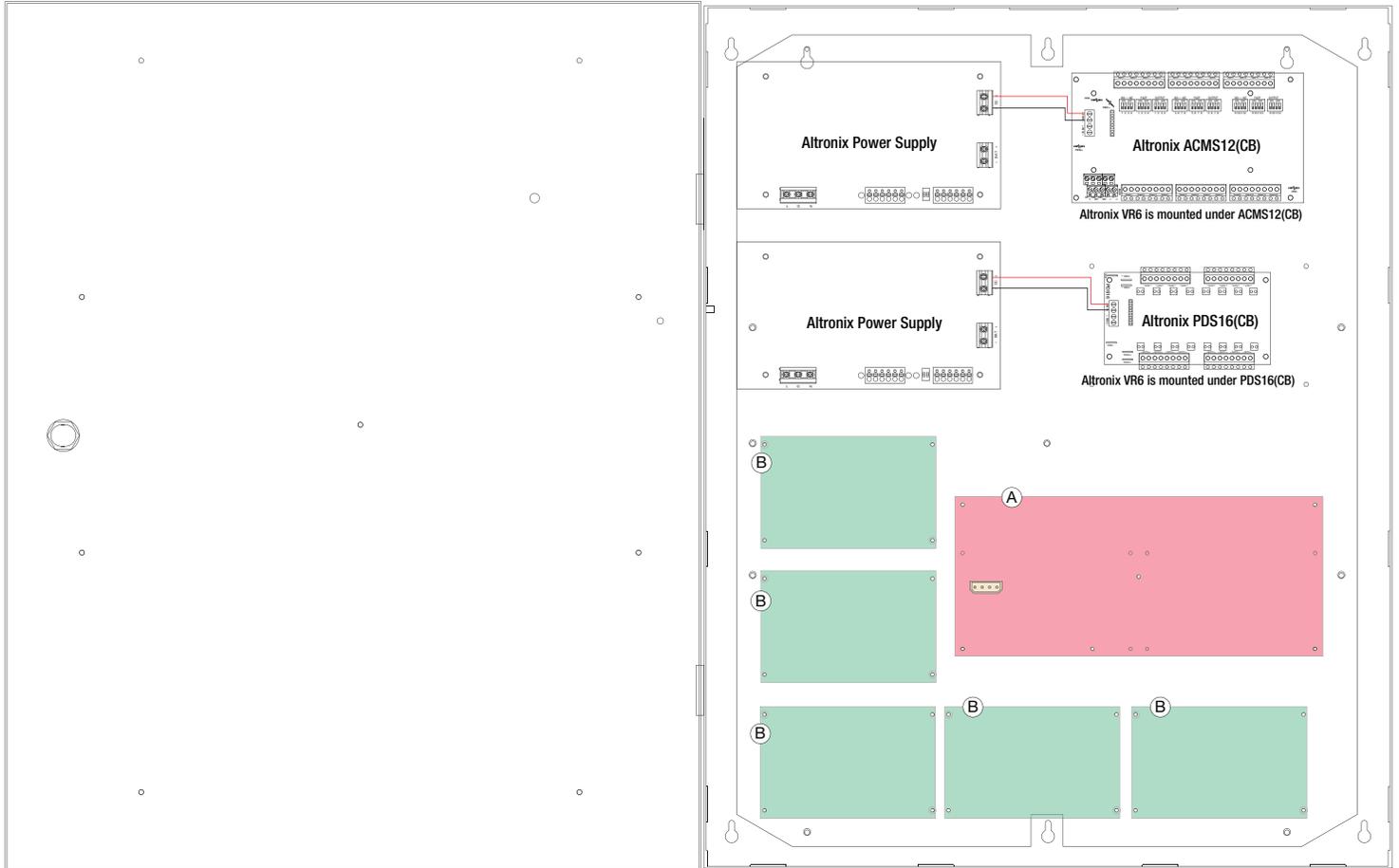| Product	40.1 lb. (18.2 kg)
Shipping	43.85 lb. (19.9 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	− 20ºC to 70ºC (− 4ºF to 158ºF)

Relative Humidity	85% +/− 5%
BTU/Hr (approx.):	246 BTU/Hr.

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Access Controller Position Chart for the Following Models:

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

Altronix Power Supply

Altronix ACMS12(CB)

Altronix VR6 is mounted under ACMS12(CB)

Altronix Power Supply

Altronix PDS16(CB)

Altronix VR6 is mounted under PDS16(CB)

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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(CB), PDS16(CB), NetWay5A, NetWay5B, NetWay5P(Q) 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)

21.50" (546.1mm)

2.00" (50.8mm)   5.25" (133.35mm)   3.5"(88.9mm)   3.5"(88.9mm)   5.25" (133.35mm)   2.00" (50.8mm)

1.25" (31.8mm)

0.5625" (14.3mm)

0.685" (17.4mm)

Knockouts
1.125" (28.3mm)

1.77" (45mm)

Ø 2.415" (61.3mm)   0.885" (22.5mm)

6.25" (158.8mm)

1.5" (38.1mm)

6.25" (158.8mm)
1.25" (31.8mm)

19.80" (502.9mm)

2.00" (50.8mm)

6.75" (171.5mm)

8.25" (209.5mm)

27" (685.8mm)

8.00" (203.2mm)

0.85" (21.6mm)

1.00" (25.4mm)

1.25" (31.8mm)

2.00" (50.8mm)

1.25" (31.8mm)

2.00" (50.8mm)   5.25" (133.4mm)   7.00" (177.8mm)   5.25" (133.4mm)   2.00" (50.8mm)