

## T1RM3F4V

### Rack Access and Power Integration Solution for Mercury



Altronix T1RM3F4V kit consists of Trove1R enclosure and TM1R Altronix & Mercury backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, 12VDC voltage regulator, eight (8) output fused dual output power distribution module and four (4) fuse protected output access control module. This kit also accommodates various combinations of Mercury\* boards for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

**\*Also compatible with these authentic Mercury partners:**

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt



T1RM3F4V

*Mercury boards are not included*



### Key Features

- Output Power:
  - Four (4) 24VDC fused lock power outputs rated at 6A total max.
  - Fire Alarm Disconnect is individually selectable by output
  - Eight (8) individually selectable 12VDC or 24VDC fused power outputs rated at 6A total max. for readers, REXs, controllers, etc.
- Accommodates the following Mercury controllers: LP1502, MR52, MR16IN, MR16OUT, LP2500, MUX8, MR62e, LP1501, MR50
- Power status LED on front panel
- Simplified board layout and wire management
- Convenient knockout configuration:
  - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
  - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Included Z Bracket facilitates ease of wiring
- Includes cam lock, tamper switch and mounting hardware
- CE European Conformity
- Lifetime Warranty\*

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

### Accessories (order separately)



RE2

#### RE2 - Rack Mount Battery Enclosure

accommodates up to four (4) 12VDC/7AH batteries



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.

**Specifications****Power Supply/Charger (eFlow6NBV):****Input**

Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.5A
Input Fuse	5A/250V

**Output**

Voltage	24VDC
Current	6A continuous
Auxiliary	1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

**Battery Charging**

Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous
Batteries are sold separately	

**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)**

Input	220VAC is present
DC Output	Powered
Battery	Discharged or not connected

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

Voltage	24VDC from eFlow6NBV and 12VDC from VR6
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

**Voltage Regulator (VR6):****Input**

Voltage	24VDC from eFlow6NBV
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**Output**

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

**Indicators (LED)**

Input	24VDC is present
Output	Powered

**Access Power Controller (ACM4):****Input**

Voltage	24VDC from eFlow6NBV
Input Fuse	10A/32V

**Outputs**

Voltage	24VDC
Four (4) independently controlled fused outputs:	
a) Fail-Safe and/or Fail-Secure power outputs	
Form "C" Relays rated 28VAC or VDC @ 2.5A	
b) Auxiliary power outputs (unswitched)	
c) Any combination of the above	

Output Fuses	3A/32V
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**Indicators (LED)**

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

**T1RM3F4V Kit:****Agency Listings**

CE	European Conformity
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**Physical and Environmental:****Dimensions (H x W x D):**

Modular 2U standard EIA 19" rack mount chassis
Enclosure: 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)
Shipping: 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)

**Weights (approx.):**

Product:	20 lb. (9.07 kg)
Shipping:	25 lb. (11.34 kg)

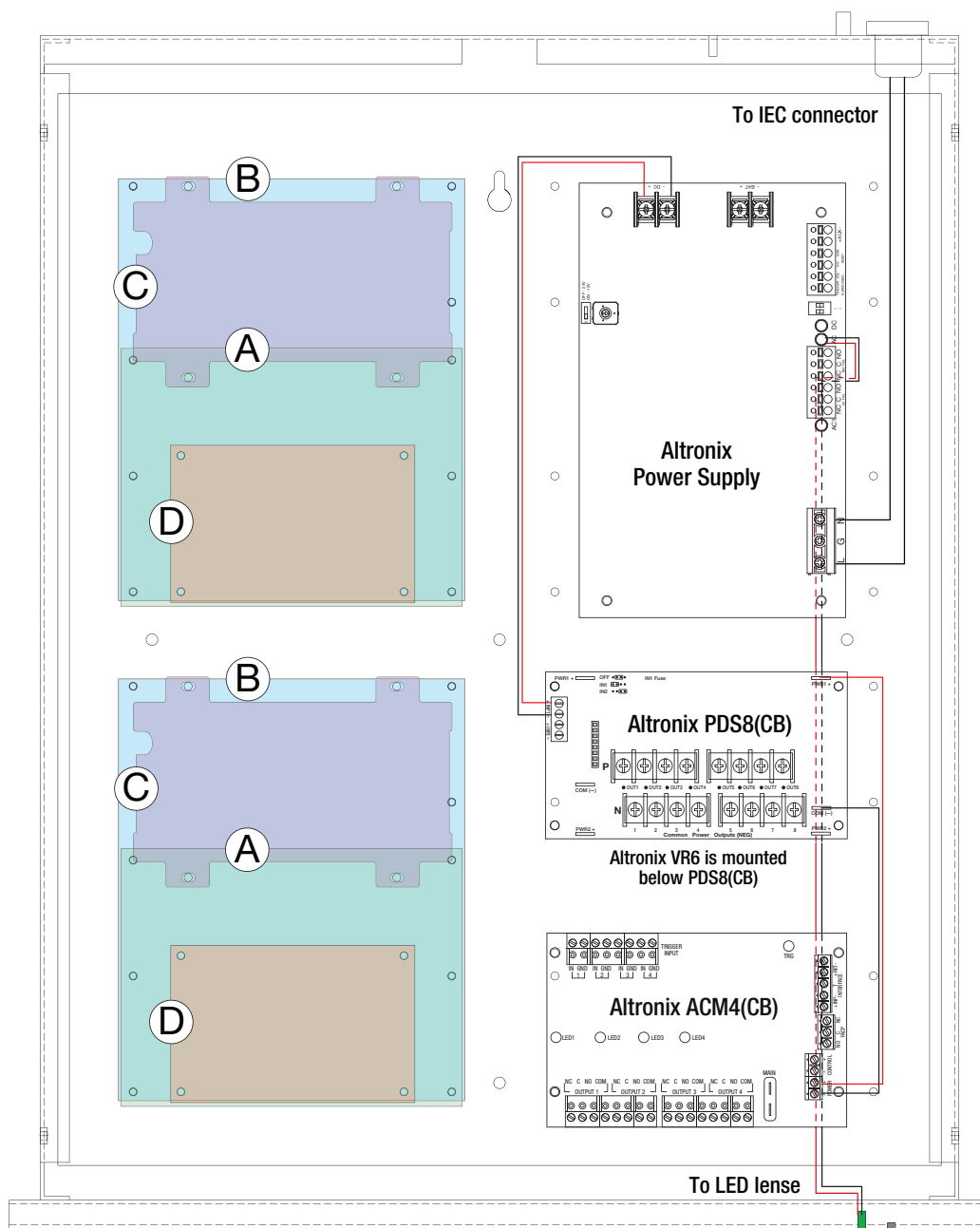
**Temperature**

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.:	87 BTU/Hr.

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

Altronix/Mercury	Pem Mounting
LP2500, MUX8	(A)
LP1502, LP4502, MR52, MR16IN, MR16OUT	(B)
LP1501, MR62e	(C)
MR50	(D)



## Dimensions and Drawing

Dimensions (H x W x D approximate)

3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)

