

T1RAL3F8DV

Rack Access and Power Integration Solution



Altronix T1RAL3F8DV Trove™ Rack kit is pre-assembled and consists Trove1R enclosure and TAL1R Altronix backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, 12VDC voltage regulator, eight (8) output PTC dual output power distribution module and eight (8) output PTC dual output access control module. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1RAL3F8DV

Key Features

- Output Power:
 - Eight (8) individually selectable 12VDC or 24VDC PTC lock power outputs rated at 6A total max.
 - Fire Alarm Disconnect is individually selectable by output
 - Eight (8) individually selectable 12VDC or 24VDC PTC power outputs rated at 6A max. for readers, REXs, controllers, etc.
- Power status LED on front panel
- Includes cam lock, tamper switch and mounting hardware
- Simplified board layout and wire management
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Convenient knockout configuration:
 - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
 - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- Included Z Bracket facilitates ease of wiring
- 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 (eFlow6RLBV):

Input

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

Outputs

Voltage	Factory set at 24VDC
Current	6A continuous
Auxiliary	Power-limited @ 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	

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

Dual Input Access Power Controller (ACMS8CB):

Input

Voltage	24VDC from eFlow6RLBV and 12VDC from VR6
Input PTCs	15A/32V

Outputs

Voltage	12 or 24VDC individually selectable.
Eight (8) selectable 12VDC - 24VDC 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) 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
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Indicators (LED)

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

Individual Voltage LEDs

Green:	12VDC
Red:	24VDC

Dual Input Power Distribution Module (PDS8CB):

Input

Voltage	24VDC from eFlow6RLBV 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	2.5A

Indicators (LED)

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

Voltage Regulator (VR6):

Input

Voltage	24VDC from eFlow6RLBV
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Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)

Input	24VDC is present
Output	Powered

T1RAL3F8DV 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)

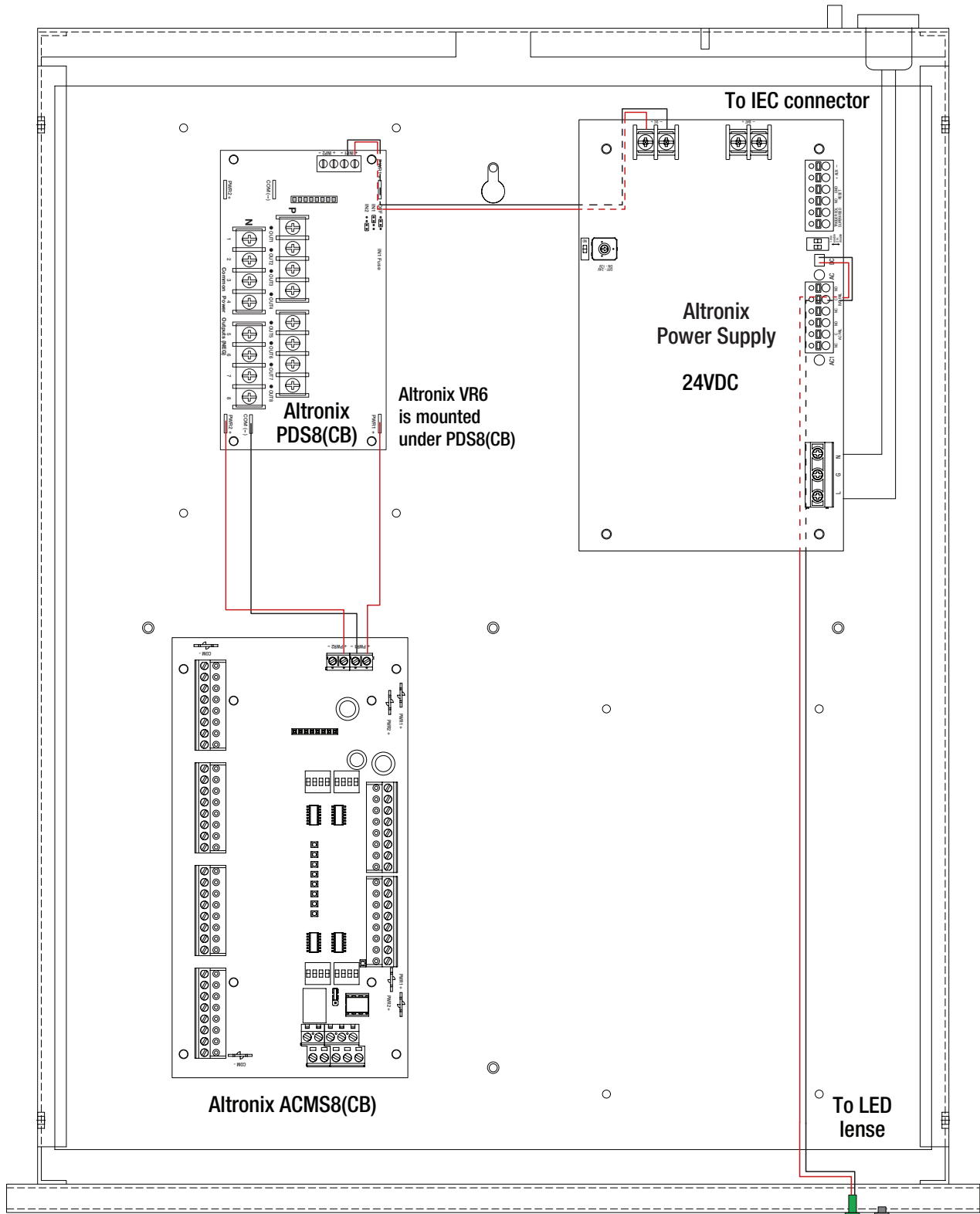
Temperature

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.: 45 BTU/Hr.



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)

