

Trove3 / Mercury Kits

Access & Power Integration Solution

Description

Altronix Trove3 Mercury kits are pre-assembled and consist of Trove enclosure and backplane with factory installed Altronix power supply/chargers and sub-assemblies. These kits also accommodate various combinations of Mercury boards for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T3MK75F16D

Key Features

- Accommodate the following Mercury boards:
 - Mercury: EP1502, MR52, MR16IN, MR16OUT, EP2500, MUX8, and Genetec Synergis Cloud Link
- Convenient knockout configuration.
- 16 AWG galvanized steel backplane simplifies board layout and wire management.
- Filtered and electronically regulated outputs.
- Thermal and short circuit protection with auto reset.
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown.
- Built-in charger(s) for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- AC input and DC output LED indicators.
- Enclosure accommodates up to four (4) 12VDC/12AH batteries.
- Lifetime Warranty* / Made in the U.S.A.

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

Trove3 / Mercury Kit Components Reference Chart

Altronix Model Number	Maximum Number of Doors Accommodated	Power Supplies		Access Power Controllers	Power Distribution Module	Rocker Switch
		Power Supply 1	Power Supply 2			
T3MK75F16	16	eFlow104NB	eFlow102NB	Two (2) ACM8	PD8UL	2
T3MK75F16D	16	eFlow104NB	eFlow102NB	Two (2) ACM8CB	PD8ULCB	2
T3MK77F16	16	eFlow104NB	eFlow104NB	Two (2) ACM8	Two (2) PD8UL	2
T3MK77F16D	16	eFlow104NB	eFlow104NB	Two (2) ACM8CB	Two (2) PD8ULCB	2

Trove3 / Mercury Kits

Access & Power Integration Solution

Trove3 / Mercury Kit Configuration Reference Chart

Altronix Model Number	Nominal DC Output Voltage Options								Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8(CB) Access Power Controller's outputs (A)	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	120VAC, 60Hz Input Current (A)	Current Per ACM8(CB) Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	ACM8(CB) Board Input Fuse Rating	ACM8 Board Output Fuse Rating	ACM8CB Board Output PTC Rating
	Power Supply 1				Power Supply 2												
	[DC]		[AUX]		[DC]		[AUX]										
	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)									
T3MK75F16	–	20.19- 26.4	–	20.19- 26.4	10.0- 13.2	–	10.03- 13.2	–	24VDC @ 9.2A 12VDC @ 9.3A	16	8.0	2.0	6.3A/250V (eFlow104NB) 5A/250V (eFlow102NB)	15A/ 32V	10A/ 250V	2.5A	–
T3MK75F16D	–	20.19- 26.4	–	20.19- 26.4	10.0- 13.2	–	10.03- 13.2	–							10A/ 250V	–	2.0A
T3MK77F16	–	20.19- 26.4	–	20.19- 26.4	–	20.19- 26.4	–	20.19- 26.4	24VDC @ 9.2A		9.0		6.3A/250V		10A/ 250V	2.5A	–
T3MK77F16D	–	20.19- 26.4	–	20.19- 26.4	–	20.19- 26.4	–	20.19- 26.4							10A/ 250V	–	2.0A

Specifications

Input

Voltage	120VAC, 60Hz.
Fusing	see Configuration Reference Chart.

Outputs

Voltage	12 or 24VDC, see Configuration Reference Chart
Current	Varies, see Configuration Reference Chart.
Other	Overvoltage protection. Filtered and regulated.

Back-up Battery *(not included)*

Capacity	12AH / 12VDC (Up to 4 within enclosure). 40 AH / 65 AH (requires separate enclosure).
Type	Sealed lead acid or gel type.
Fuse Rating	15A/32V.
Failover	Upon AC loss, instantaneous.

Supervision

AC Failure	Form "C" contacts.
Battery	Form "C" contacts.

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge.

Indicators (LED)

Input	120VAC is present.
DC Output	Powered.
Battery	Discharged or not connected.

Physical and Environmental

Dimensions (H x W x D)

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

Weight (approx.):

T3MK75F16	84.2 lbs. (38.2 kg)	97.5 lbs. (44.22 kg)
T3MK75F16D	84.2 lbs. (38.2 kg)	97.5 lbs. (44.22 kg)
T3MK77F16	85.6 lbs. (38.83 kg)	98.8 lbs. (44.82 kg)
T3MK77F16D	85.6 lbs. (38.83 kg)	98.8 lbs. (44.82 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.):

T3MK75F16, T3MK75F16D	217
T3MK77F16, T3MK77F16D	289