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Altronix®

# Trove3 / Mercury Kits
## Access & Power Integration Solution

T3MK75F16

### 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.

### 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.
- AC input and DC output LED indicators.
- 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.
- Enclosure accommodates up to four (4) 12VDC/12AH batteries.
- CE European Conformity.
- 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 |



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## 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<br>12VDC @ 9.3A | 16 | 8.0 | 2.0 | 6.3A/250V (eFlow104NB)<br>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.

### Agency Listings

CE: European Conformity

### 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: 0ºC to 49ºC (32ºF to 120ºF).
Storage: -20ºC to 70ºC (-4ºF to 158ºF).
Relative Humidity: 85% +/-5%.
BTU/Hr (approx.):

| | |
|---|---|
| T3MK75F16, T3MK75F16D | 217 |
| T3MK77F16, T2MK77F16D | 289 |

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