

Trove / Mercury Kits (PTC) Access & Power Integration Solution

Description

Altronix Trove Mercury kits are pre-assembled and consist of Trove2M2 enclosure/backplane and TMV2 door backplane* with factory installed Altronix power supply/charger(s) 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.

**TMV2 is included with T2MK75F16D, T2MK75F16DQ, T2MK77F16D, and T2MK77F16DQ only.*



T2MK77F16D

Key Features

- Accommodates the following Mercury controllers: EP1502, MR52, MR16IN, MR16OUT, EP2500, MUX8, MR51e, EP1501, MR50, and Genetec Synergis Cloud Link.
- Convenient knockout configuration:
 - Single 2" diameter knockout located top center of enclosure
 - Sixteen (16) double knockouts (1" and 0.75").
- 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*

Trove Mercury Kit Components Reference Chart

Altronix Model Number	Backplanes Installed	Maximum Number of Doors Accommodated	Power Supplies		Network Communications Module	Access Power Controllers	Voltage Regulator	Power Distribution Module
			Power Supply 1	Power Supply 2				
T2MK3F4D	TM2	4	eFlow6NB	---	---	ACM4CB	VR6	PDS8CB
T2MK3F4DQ					LINQ2			
T2MK3F8D		8			---	ACM8CB		
T2MK3F8DQ					LINQ2			
T2MK7F8D					---			
T2MK7F8DQ					LINQ2			
T2MK75F16D	TM2 and TMV2	16	eFlow104NB	eFlow102NB	Two (2) ACM8CB	---	PD8ULCB	
T2MK75F16DQ				LINQ2				
T2MK77F16D				---		VR6	PDS8CB	
T2MK77F16DQ				LINQ2				

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Trove Mercury Kit Configuration Reference Chart

Altronix Model Number	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4CB/ACM8CB Access Power Controller's outputs	Fail-Safe/Fail-Secure Auto-Resettable Outputs	120VAC 60Hz Input Current (A)	Current Per ACM4CB/ ACM8CB Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	ACM4CB/ACM8CB Board Input Fuse Rating	ACM4CB/ACM8CB Board Output PTC Rating	PDS8CB Board Input Fuse Rating	PDS8CB Board Output PTC Rating	PD8ULCB Board Output PTC Rating
	Power Supply 1		Power Supply 2												
	[DC]	[Aux]	[DC]	[Aux]											
	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)											
T2MK3F4D	20.19- 26.4	20.19- 26.4	---	---	24VDC @ 5.8A	4	3.5	2.0	5A/ 250V	10A/ 32V	10A/ 250V	2A	10A/ 250V	2A	---
T2MK3F4DQ															
T2MK3F8D															
T2MK3F8DQ															
T2MK7F8D	20.17- 26.4	20.28- 26.4	9.7- 13.2	10.03- 13.2	24VDC @ 9.2A	8	4.5	6.3A/250V 5A/250V	15A/ 32V	10A/ 250V	2A	---	---	2A	
T2MK7F8DQ															
T2MK75F16D															
T2MK75F16DQ															
T2MK77F16D															
T2MK77F16DQ			20.17- 26.4	20.28- 26.4	24VDC @ 9.2A	16	9		6.3A/ 250V			10A/ 250V	2A	---	

Specifications

Input

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

Outputs

Voltage	12 or 24 VDC, 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	Varies, see Reference Chart.
Fallover	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)	27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm).
Weight (approx.)	

Model	Product Weight	Shipping Weight
T2MK3F4D	39.2 lbs. (17.78 kg)	43 lbs. (19.5 kg)
T2MK3F4DQ	39.6 lbs. (18 kg)	43.35 lbs. (19.66 kg)
T2MK3F8D	39.6 lbs. (18 kg)	43.35 lbs. (19.66 kg)
T2MK3F8DQ	40.0 lbs. (18.15 kg)	43.75 lbs. (19.85 kg)
T2MK7F8D	40.1 lbs. (18.19 kg)	43.85 lbs. (19.9 kg)
T2MK7F8DQ	40.5 lbs. (18.37 kg)	44.25 lbs. (20.1 kg)
T2MK75F16D	41.1 lbs. (18.64 kg)	44.85 lbs. (20.34 kg)
T2MK75F16DQ	41.5 lbs. (18.82 kg)	45.25 lbs. (20.5 kg)
T2MK77F16D	41.3 lbs. (18.73 kg)	45.05 lbs. (20.43 kg)
T2MK77F16DQ	41.7 lbs. (18.9 kg)	45.45 lbs. (20.62 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.):

Model	BTU
T2MK3F4D, T2MK3F4DQ, T2MK3F8D, T2MK3F8DQ	87
T2MK7F8D, T2MK7F8DQ	145
T2MK75F16D, T2MK75F16DQ	217
T2MK77F16D, T2MK77F16DQ	289