

M Series Multi-Output Power Supply/Chargers

Description

Altronix M series access control power supply/chargers are specifically designed for use with access control systems and accessories. These units convert a 115VAC, 60Hz input into five (5) individually protected 12VDC or 24VDC outputs (see specifications). Each output will route power to a variety of access control hardware devices including Mag Locks, Electric Strikes, Magnetic Door Holders, etc. These outputs will operate in both Fail-Safe and Fail-Secure modes. Controlled trigger input is achieved through normally open [NO] or normally closed [NC] supervised input or the polarity reversal from an FACP (Fire Alarm Control Panel). A form "C" dry output relay enables HVAC Shutdown, Elevator Recall or may be used to trigger auxiliary devices.



Key Features

- Fire Alarm Panel or Access Control System trigger inputs. [NO] or [NC] supervised trigger input and polarity reversal trigger input (4mA draw from FACP).
- Five (5) individual power-limited Class 2 outputs (auto-resettable).
- Filtered and electronically regulated outputs.
- Thermal and short circuit protection with auto reset.
- Overload protection.
- Output relay energizes when unit is triggered (form "C" contact rated 1A @ 28VDC).
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- Power and input trigger LEDs.
- DC output LED indicator.
- LEDs indicate condition of power outputs.
- UL Listed in the U.S. and Canada.
- CSFM Approved.
- Lifetime Warranty / Made in the U.S.A.
- All units are available in grey or red enclosure.

M Series Power Supply Configuration Reference Chart

Altronix Model Number	12VDC Total Output Current (A)	24VDC Total Output Current (A)	Class 2 Rated Power-Limited Outputs (auto-resettable)	115VAC 60Hz Input Current Draw (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Accommodates Batteries
AL300ULM	2.5	2.5	5	3.5A	5A/250V	15A/32V	Two (2) 7AH
AL300ULMX							Two (2) 12AH
AL400ULM	4	3					Two (2) 7AH
AL400ULMX							Two (2) 12AH
AL600ULM	6	6				Two (2) 7AH	
AL600ULMX						Two (2) 12AH	
AL1012ULM	10	—		2.6A	15A/32V	One (1) 12AH	
AL1024ULM	—	10		4.2A		Two (2) 12AH	

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Specifications

Input

Voltage 115VAC 60Hz.
 Fusing Varies, see Reference Chart.

Outputs

Voltage 12VDC or 24VDC, see Reference Chart.
 Current Varies, see Reference Chart.
 Protection PTC 2.5A.
 Other Overvoltage protection.
 Filtered and regulated outputs.

Back-up Battery *(not included)*

Capacity 7AH / 12VDC (AL300ULM, AL400ULM, AL600ULM).
 12AH / 12VDC (AL300ULMX, AL400ULMX, AL600ULMX, AL1012ULM, AL1024ULM).
 Type Sealed lead acid or gel type.
 Fuse Rating 15A @ 32VDC.
 AL600ULM(X) does not have a battery fuse.
 Failover Upon AC loss, instantaneous.

Supervision

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

Indicators (LED)

Input 115VAC is present.
 DC Output Powered.
 Battery Discharged or not connected.
 Power and Input Individual LEDs indicate outputs are triggered (relays energized).

Agency Listings

All Models:

UL:
 UL294 Access Control System Units.
 cUL:
 CSA C22.2 No.205 Signal Equipment.

Agency Listings (cont'd)

All Models in Series, Except AL1012ULM:

UL1481 Fire Protective Signaling Systems
 CSFM California State Fire Marshall Approved.

AL300ULM, AL400ULM, AL600ULM Only:

UL603 Burglar Alarms Systems
 UL1069 Hospital Signaling and Nurse Call Equipment

Physical and Environmental

Dimensions (H x W x D)

AL300ULM, AL400ULM, AL600ULM:
 13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm).
 AL300ULMX, AL400ULMX, AL600ULMX, AL1012ULM, AL1024ULM
 15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

Product Weight / Shipping (approx.)

Model	Product Weight	Shipping Weight
AL300ULM	7.6 lbs. (3.45 kg)	8.6 lbs. (3.9 kg)
AL300ULMX	9.4 lbs. (4.26 kg)	10.4 lbs. (4.72 kg)
AL400ULM	7.6 lbs. (3.45 kg)	8.6 lbs. (3.9 kg)
AL400ULMX	9.4 lbs. (4.26 kg)	10.4 lbs. (4.72 kg)
AL600ULM	7.9 lbs. (3.58 kg)	8.9 lbs. (4.04 kg)
AL600ULMX	9.7 lbs. (4.4 kg)	11.2 lbs. (5.1 kg)
AL1012ULM	8.95 lbs. (4.06 kg)	10.25 lbs. (4.65 kg)
AL1024ULM	10.8 lbs. (4.90 kg)	11.8 lbs. (5.35 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	12VDC	24VDC
AL300ULM(X)	15	31
AL400ULM(X)	25	37
AL600ULM(X)	37	74
AL1012ULM	61	N/A
AL1024ULM	N/A	123