

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.



AL600ULM

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

M Series Multi-Output Power Supply/Chargers



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 Units In Series:

Signal Equipment	CSA Standard C22.2 No.205-M1983
Access Control	UL294

All Units In Series, Except AL1012ULM:

Fire Protective Signaling Systems	UL1481
California State Fire Marshall Approved	

AL300ULM, AL400ULM, AL600ULM Only:

Burglar Alarms Systems	UL603
Hospital Signaling and	UL1069
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%.
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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