

ACM Series

Power Supply/Chargers with Multi-Output Access Power Controllers

Description

Altronix ACM series distribute and switch power to access control systems and accessories. They convert a 115VAC, 60Hz input into eight (8) independently controlled 12VDC or 24VDC fuse protected outputs. These power outputs can be converted to dry form "C" contacts. Outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. The FACP Interface enables Emergency Egress, Alarm Monitoring, or may be used to trigger other auxiliary devices. The fire alarm disconnect feature is individually selectable for any or all of the eight (8) outputs.



AL600ULACM

Key Features

- Eight (8) independently controlled outputs.
- Output options:
 - a) Eight (8) Fail-Safe and/or Fail-Secure power outputs;
 - b) Eight (8) form "C" 5A rated relay outputs;
 - c) Any combination of the above.
- Eight (8) auxiliary power outputs (unswitched).
- Output fuses are rated @ 3.5A.
- Filtered and electronically regulated outputs.
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence.
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the eight (8) outputs.
- Alarm output relay indicates that FACP input is triggered
- Fire Alarm disconnect input options:
 - a) Normally open (NO) or normally closed (NC) dry contact input
 - b) Polarity reversal input from FACP signaling circuit.
- Built-in charger for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- UL Listed in the U.S. and Canada.
- Lifetime Warranty / Made in the U.S.A.

ACM Series Power Supply Configuration Reference Chart

Altronix Model Number	115VAC 60Hz Input Current Draw	12VDC Total Output Current	24VDC Total Output Current	Class 2 Rated Power- Limited Outputs	Fused Outputs	Individual Output Rating	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Batteries Accommodated by Enclosure				
AL400ULACM	3.5A	4A	3A	✓	8	2.5A	5A/250V	15A/32V	Up to two (2) 12AH / 12VDC				
AL400ULACMJ									Up to two (2) 18AH / 12VDC				
AL600ULACM	3.5A	6A	6A	—				—	Up to two (2) 12AH / 12VDC				
AL600ULACMJ									Up to two (2) 18AH / 12VDC				
AL1012ULACM	2.6A	10A	—	—			6.3A/250V	15A/32V	Up to two (2) 12AH / 12VDC				
AL1012ULACMJ									Up to two (2) 18AH / 12VDC				
AL1024ULACM	4.2A	—	10A	—					Up to two (2) 12AH / 12VDC				
AL1024ULACMJ									Up to two (2) 18AH / 12VDC				

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Specifications

Input

Voltage	115VAC, 60Hz.
Input Fuse	Varies, see Reference Chart.

Outputs

Voltage	12VDC or 24VDC, see Reference Chart.
Current	Varies, depending on the model.
Protection	Fused 3.5A.
Auxiliary	3.5A (unswitched).
Other	Overvoltage protection. Filtered and regulated outputs.

Back-up Battery *(not included)*

Capacity	12AH / 12VDC (1 or 2 within enclosure). 18AH / 12VDC (requires larger "J" enclosure). 40 AH / 65 AH (requires separate enclosure).
Type	Sealed lead acid or gel type.
Fuse Rating	15A @ 32VDC AL600ULACM(J) does not have a battery fuse.
Failover	Upon AC loss, instantaneous.

Fire Alarm Disconnect

Latching or non-latching, individually selectable for any or all of the eight (8) outputs.

Supervision

AC Failure	Form "C" contacts (rated 1A @ 28VDC).
Battery	Form "C" contacts (rated 1A @ 28VDC).

Indicators (LED)

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

Agency Listings

All Models:

UL: UL294 Access Control System Units.

cUL: CSA C22.2 No.205 Signal Equipment.

AL400ULACM(J), AL600ULACM(J) only:

CSFM California State Fire Marshall Approved.

Physical and Environmental

Enclosure Dimensions (H x W x D)

AL400ULACM, AL600ULACM, AL1012ULACM, and AL1024ULACM:
15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

AL400ULACMJ, AL600ULACMJ, AL1012ULACMJ,
and AL1024ULACMJ:
18" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.48mm).

Product Weight / Shipping (approx.)

Model	Product Weight	Shipping Weight
AL400ULACM	10.7 lb. (4.85 kg)	12 lb. (5.44 kg)
AL400ULACMJ	14 lb. (6.35 kg)	15 lb. (6.8 kg)
AL600ULACM	10.3 lb. (4.67 kg)	11.6 lb. (5.26 kg)
AL600ULACMJ	14.85 lb. (6.74 kg)	17.1 lb. (7.76 kg)
AL1012ULACM	10.7 lb. (4.85 kg)	12 lb. (5.44 kg)
AL1012ULACMJ	14.1 lb. (6.40 kg)	15 lb. (6.80 kg)
AL1024ULACM	11.75 lb. (5.33 kg)	13.05 lb. (5.92 kg)
AL1024ULACMJ	14.9 lb. (6.76 kg)	16.1 lb. (7.3 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 BTU/Hr.	24VDC BTU/Hr.
AL400ULACM(J)	25	37
AL600ULACM(J)	37	74
AL1012ULACM(J)	61	N/A
AL1024ULACM(J)	N/A	123

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