

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.



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	12VDC Total Output Current	24VDC Total Output Current	Fused Outputs	Individual Output Rating	115VAC 60Hz Input Current Draw	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
AL400ULACM	4A	3A	8	2.5A	3.5A	5A/250V	15A/32V
AL400ULACMJ							
AL600ULACM	6A	6A			3.5A		
AL600ULACMJ							
AL1012ULACM	10A	—			2.6A	6.3A/250V	15A/32V
AL1012ULACMJ							
AL1024ULACM	—	10A			4.2A		
AL1024ULACMJ							

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Specifications

Input

Voltage 115VAC, 60Hz.
Fusing 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.
Battery Form "C" contacts.

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

AL400ULACM(J), AL600ULACM(J) only:
California State Fire Marshall Approved

Physical and Environmental

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 lbs. (4.85 kg)	12 lbs. (5.44 kg)
AL400ULACMJ	14 lbs. (6.35 kg)	15 lbs. (6.8 kg)
AL600ULACM	10.3 lbs. (4.67 kg)	11.6 lbs. (5.26 kg)
AL600ULACMJ	14.85 lbs. (6.74 kg)	17.1 lbs. (7.76 kg)
AL1012ULACM	10.7 lbs. (4.85 kg)	12 lbs. (5.44 kg)
AL1012ULACMJ	14.1 lbs. (6.40 kg)	15 lbs. (6.80 kg)
AL1024ULACM	11.75 lbs. (5.33 kg)	13.05 lbs. (5.92 kg)
AL1024ULACMJ	14.9 lbs. (6.76 kg)	16.1 lbs. (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. (12VDC/24VDC, approx.):

Model	12VDC	24VDC
AL400ULACM(J)	25	37
AL600ULACM(J)	37	74
AL1012ULACM(J)	61	N/A
AL1024ULACM(J)	N/A	123