

ACMCB Series

Power Supply/Chargers with Multi-Output Access Power Controllers

Description

Altronix ACMCB 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 PTC protected outputs. 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.



AL600ULACMCB

Key Features

- Eight (8) independently controlled Fail-Safe and/or Fail-Secure power outputs.
- Eight (8) auxiliary power outputs (unswitched).
- Output PTCs are rated @ 2.5A.
- 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.

ACMCB Series Power Supply Configuration Reference Chart

| Altronix Model Number | 12VDC Total Output Current | 24VDC Total Output Current | PTC Protected Outputs (auto-resettable) | Individual Output Rating | 115VAC 60Hz Input Current Draw | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating |
|--------------------------|----------------------------------|----------------------------------|---|--------------------------------|--------------------------------------|--|--|
| AL400ULACMCB | 4A | 3A | 8 | 2.5A | 3.5A | 5A/250V | 15A/32V |
| AL400ULACMCBJ | | | | | | | |
| AL600ULACMCB | 6A | 6A | | | 3.5A | | |
| AL600ULACMCBJ | | | | | | | — |
| AL1012ULACMCB | 10A | — | | | 2.6A | 15A/32V | |
| AL1012ULACMCBJ | | | | | | | |
| AL1024ULACMCB | — | 10A | | | 4.2A | | 6.3A/250V |
| AL1024ULACMCBJ | | | | | | | |

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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 PTC 2.5A.
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
AL600ULACMCB(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:

UL: UL294 Access Control System Units.

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

AL400ULACMCB(J), AL600ULACMCB(J) only:
CSFM California State Fire Marshall Approved.

Physical and Environmental

Dimensions (H x W x D)

AL400ULACMCB, AL600ULACMCB, AL1012ULACMCB, and AL1024ULACMCB:
15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

AL400ULACMCBJ, AL600ULACMCBJ, AL1012ULACMCBJ, and AL1024ULACMCBJ:
18" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.48mm).

Product Weight / Shipping (approx.)

| Model | Product Weight | Shipping Weight |
|----------------|----------------------|----------------------|
| AL400ULACMCB | 10.7 lbs. (4.85 kg) | 12 lbs. (5.44 kg) |
| AL400ULACMCBJ | 14 lbs. (6.35 kg) | 15 lbs. (6.8 kg) |
| AL600ULACMCB | 10.3 lbs. (4.67 kg) | 11.6 lbs. (5.26 kg) |
| AL600ULACMCBJ | 14.85 lbs. (6.74 kg) | 17.1 lbs. (7.76 kg) |
| AL1012ULACMCB | 10.7 lbs. (4.85 kg) | 12 lbs. (5.44 kg) |
| AL1012ULACMCBJ | 14.1 lbs. (6.40 kg) | 15 lbs. (6.80 kg) |
| AL1024ULACMCB | 11.75 lbs. (5.33 kg) | 13.05 lbs. (5.92 kg) |
| AL1024ULACMCBJ | 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 |
|------------------|-------|-------|
| AL400ULACMCB(J) | 25 | 37 |
| AL600ULACMCB(J) | 37 | 74 |
| AL1012ULACMCB(J) | 61 | N/A |
| AL1024ULACMCB(J) | N/A | 123 |