

## ACM220 Series

### Power Supply/Chargers with Multi-Output Access Power Controllers

#### Description

Altronix ACM220 series distribute and switch power to access control systems and accessories. They convert a 220VAC 50/60Hz 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.



AL600ACM220

#### 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.
- CE approved.
- Lifetime Warranty / Made in the U.S.A.

#### ACM220 Series Power Supply Configuration Reference Chart

Altronix Model Number	12VDC Total Output Current	24VDC Total Output Current	Fused Outputs	Individual Output Rating	220VAC 50/60Hz Input Current Draw	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	
AL400ACM220	4A	3A	8	2.5A	1.2A	5A/250V	15A/32V	
AL400ACMJ220								
AL600ACM220	6A	6A			1.5A			—
AL600ACMJ220								
AL1012ACM220	10A	—			2.2A	15A/32V		
AL1012ACMJ220								
AL1024ACM220	—	10A			3A	6.3A/250V		
AL1024ACMJ220								

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### Specifications

#### Input

Voltage 220VAC (working range 198VAC - 256VAC), 50/60Hz.  
 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  
 AL600ACM(J)220 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 220VAC 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

CE European Conformity

#### Physical and Environmental

##### Dimensions (H x W x D)

AL400ACM220, AL600ACM220, AL1012ACM220, and AL1024ACM220:  
 15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

AL400ACMJ220, AL600ACMJ220, AL1012ACMJ220, and AL1024ACMJ220:

18" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.48mm).

##### Product Weight / Shipping (approx.)

Model	Product Weight	Shipping Weight
AL400ACM220	10.7 lbs. (4.85 kg)	12 lbs. (5.44 kg)
AL400ACMJ220	14 lbs. (6.35 kg)	15 lbs. (6.8 kg)
AL600ACM220	10.3 lbs. (4.67 kg)	11.6 lbs. (5.26 kg)
AL600ACMJ220	14.85 lbs. (6.74 kg)	17.1 lbs. (7.76 kg)
AL1012ACM220	10.7 lbs. (4.85 kg)	12 lbs. (5.44 kg)
AL1012ACMJ220	14.1 lbs. (6.40 kg)	15 lbs. (6.80 kg)
AL1024ACM220	11.75 lbs. (5.33 kg)	13.05 lbs. (5.92 kg)
AL1024ACMJ220	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
AL400ACM(J)220	25	37
AL600ACM(J)220	37	74
AL1012ACM(J)220	61	N/A
AL1024ACM(J)220	N/A	123