Altronix®

Rev. 06222023

ACM220 Series

Power Supply/Chargers with Multi-Output Access Power Controllers

AL600ACM220

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.

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 European Conformity
- Lifetime Warranty

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		
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

Battery Charging

Capacity	12AH/12VDC (1 or 2 within enclosure) 18AH/12VDC (requires larger "J" enclosure) 40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Fuse Rating	15A/32V AL600ACM(J)220 doesn't have battery fuse
Failover	Upon AC loss, instantaneous

Batteries are sold separately

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:

Enclosure:
15.5" x 12.23" x 4.5" (393.7mm x 310.6mm x 114.3mm)
Shipping:
16.5" x 13.5" x 6" (419.1mm x 342.9mm x 152.48mm)

AL400ACMJ220, AL600ACMJ220, AL1012ACMJ220, and AL1024ACMJ220:

Enclosure:
18" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.5mm)
Shipping:
21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)

Weight (approx.)

Model	Product Weight	Shipping Weight
AL400ACM220	10.7 lb. (4.85 kg)	12 lb. (5.44 kg)
AL400ACMJ220	14 lb. (6.35 kg)	15 lb. (6.8 kg)
AL600ACM220	10.3 lb. (4.67 kg)	11.6 lb. (5.26 kg)
AL600ACMJ220	14.85 lb. (6.74 kg)	17.1 lb. (7.76 kg)
AL1012ACM220	10.7 lb. (4.85 kg)	12 lb. (5.44 kg)
AL1012ACMJ220	14.1 lb. (6.40 kg)	15 lb. (6.80 kg)
AL1024ACM220	11.75 lb. (5.33 kg)	13.05 lb. (5.92 kg)
AL1024ACMJ220	14.9 lb. (6.76 kg)	16.1 lb. (7.3 kg)

Temperature

Operating:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	20 to 85%, non-condensing

BTU/Hr. (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

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Dimensions and Drawing

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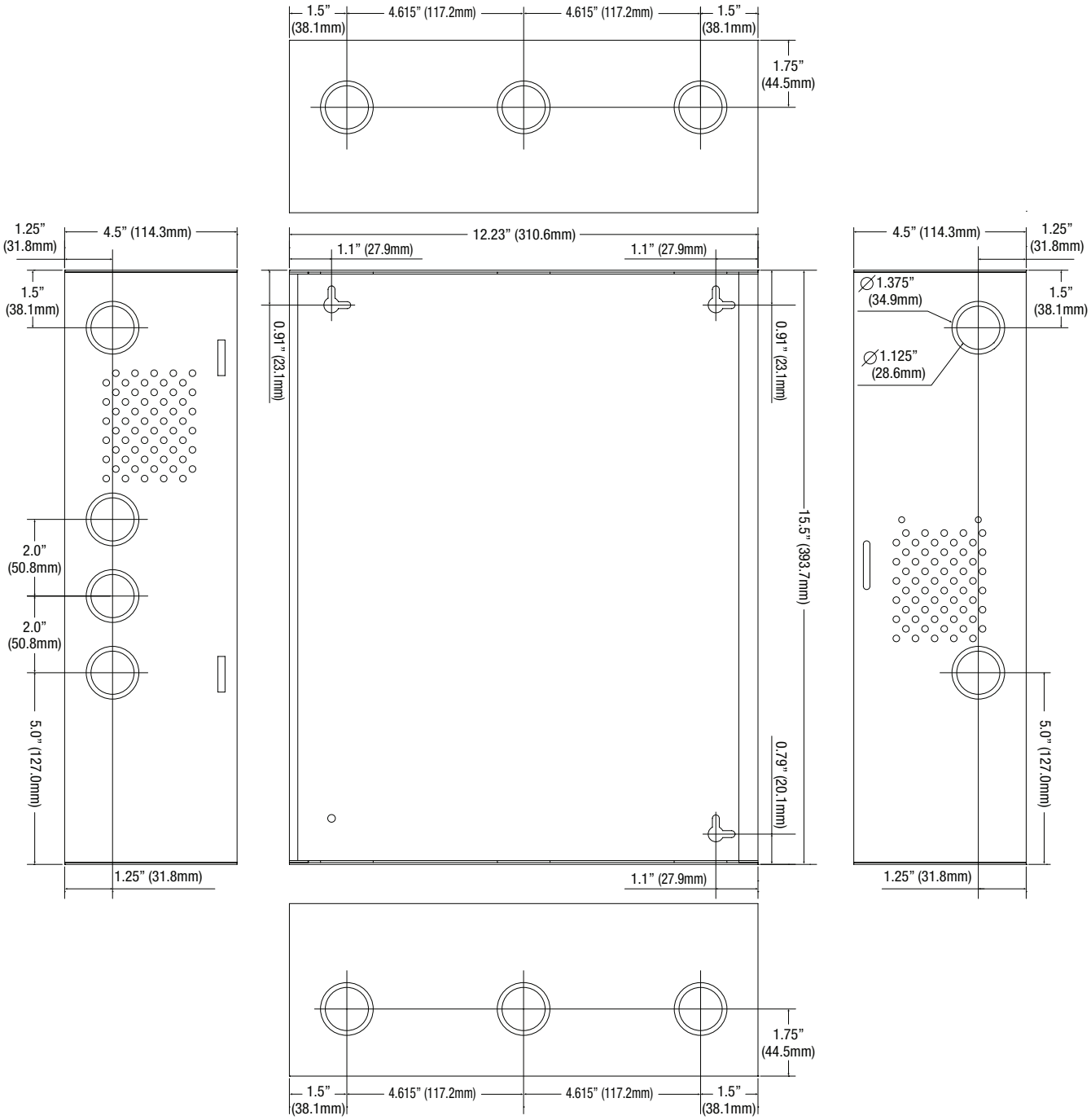
15.5" x 12.23" x 4.5" (393.7mm x 310.6mm x 114.3mm)



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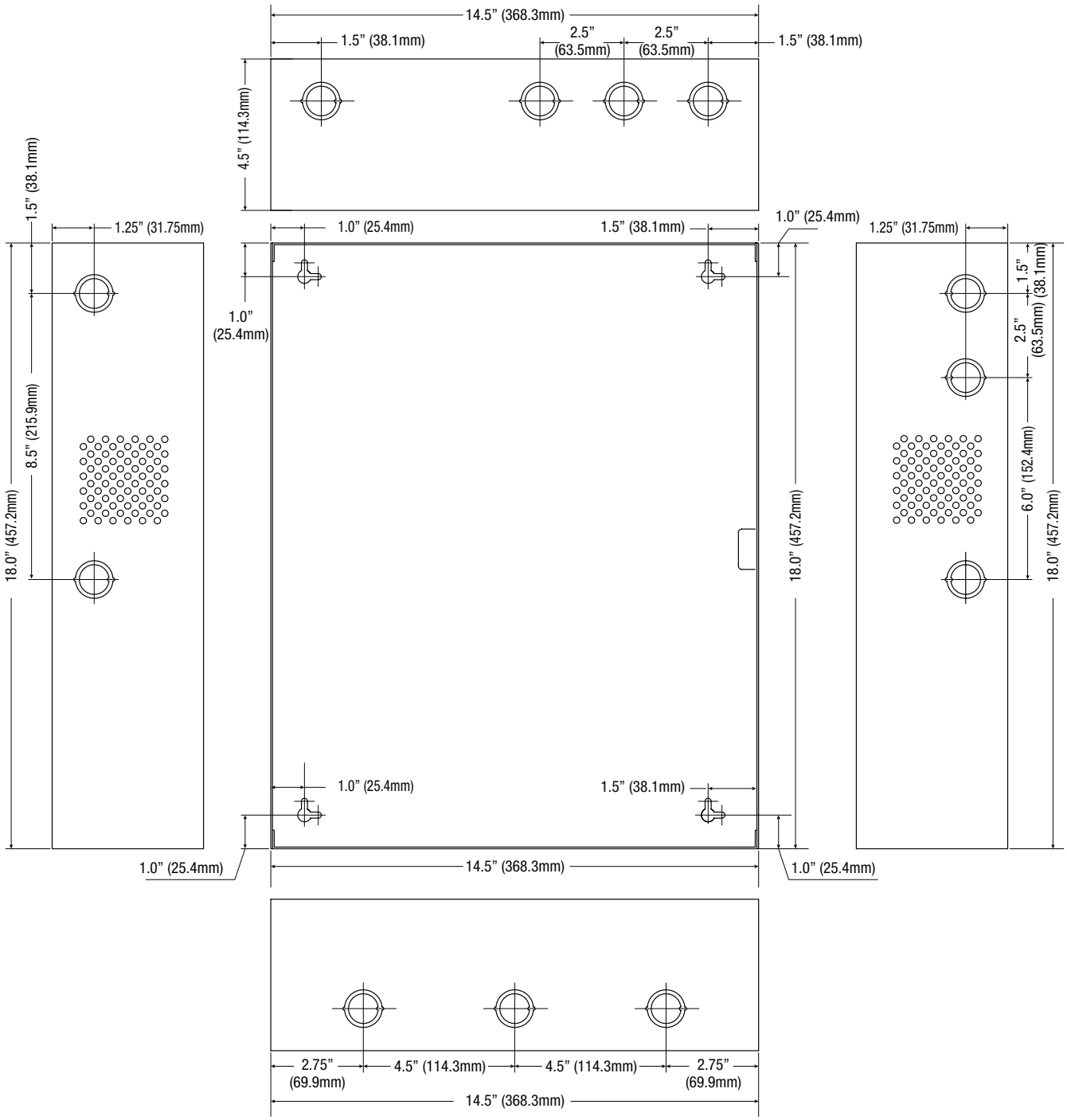

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