Altronix®

Rev. 06222023

ACMCB220 Series

Power Supply/Chargers with Multi-Output Access Power Controllers

Altronix ACMCB220 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 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.

AL600ACMCB220

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
- CE European Conformity
- Lifetime Warranty

ACMCB220 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	220VAC 50/60Hz Input Current Draw	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
AL400ACMCB220	4A	3A	8	2A	1.2A	5A/250V	15A/32V
AL400ACMCBJ220							
AL600ACMCB220	6A	6A			1.5A		–
AL600ACMCBJ220							
AL1012ACMCB220	10A	–			2.2A		15A/32V
AL1012ACMCBJ220							
AL1024ACMCB220	–	10A			3A		
AL1024ACMCBJ220							

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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	PTC 2.5A
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 AL600ACMCB(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

Enclosure Dimensions (H x W x D)

AL400ACMCB220, AL600ACMCB220, AL1012ACMCB220, and AL1024ACMCB220:

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 152.5mm)

AL400ACMCBJ220, AL600ACMCBJ220, AL1012ACMCBJ220, and AL1024ACMCBJ220:

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
AL400ACMCB220	10.7 lb. (4.85 kg)	12 lb. (5.44 kg)
AL400ACMCBJ220	14 lb. (6.35 kg)	15 lb. (6.8 kg)
AL600ACMCB220	10.3 lb. (4.67 kg)	11.6 lb. (5.26 kg)
AL600ACMCBJ220	14.85 lb. (6.74 kg)	17.1 lb. (7.76 kg)
AL1012ACMCB220	10.7 lb. (4.85 kg)	12 lb. (5.44 kg)
AL1012ACMCBJ220	14.1 lb. (6.40 kg)	15 lb. (6.80 kg)
AL1024ACMCB220	11.75 lb. (5.33 kg)	13.05 lb. (5.92 kg)
AL1024ACMCBJ220	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
AL400ACMCB(J)220	25	37
AL600ACMCB(J)220	37	74
AL1012ACMCB(J)220	61	N/A
AL1024ACMCB(J)220	N/A	123

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Dimensions and Drawing

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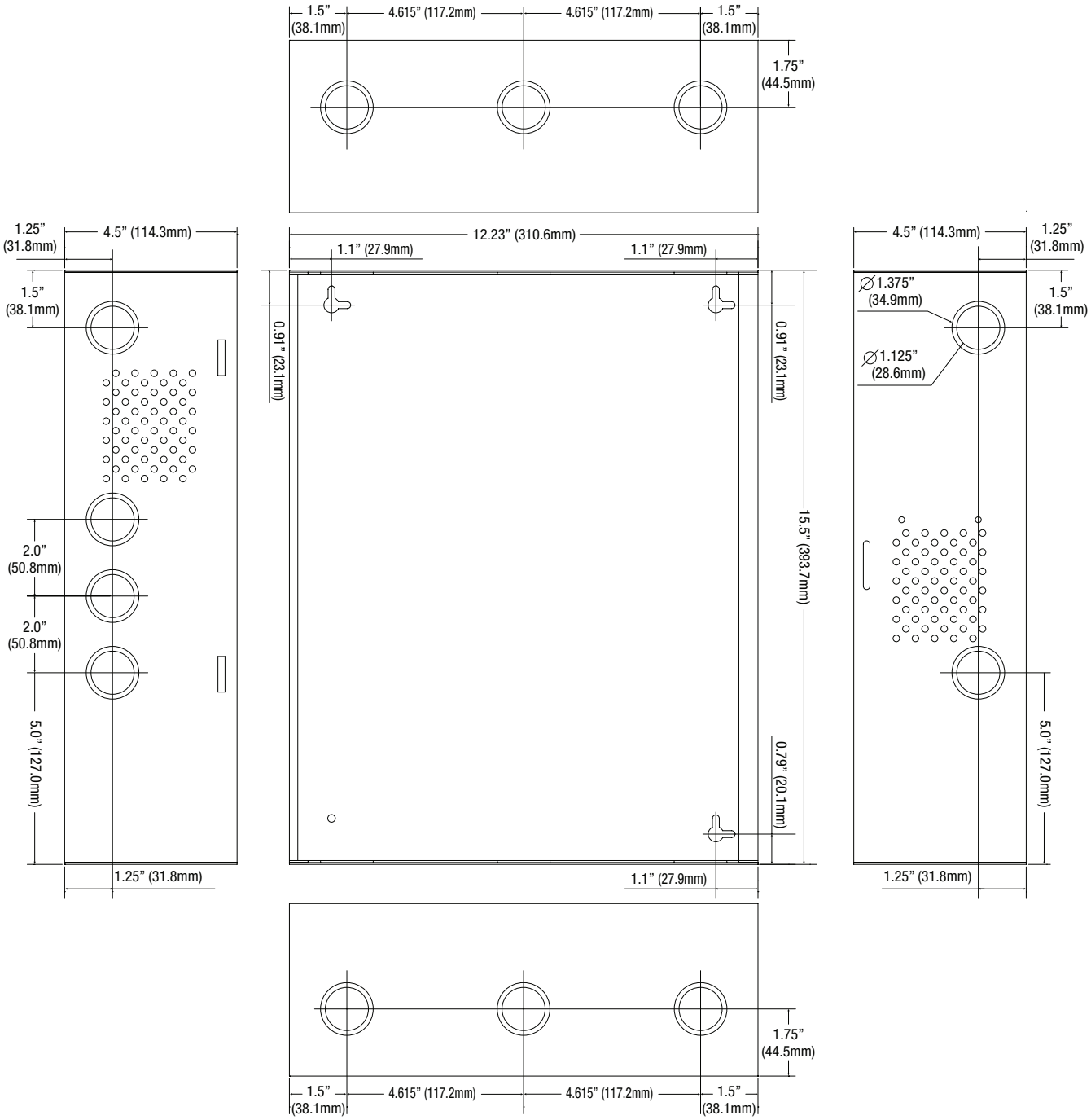
15.5" x 12.23" x 4.5" (393.7mm x 310.6mm x 114.3mm)



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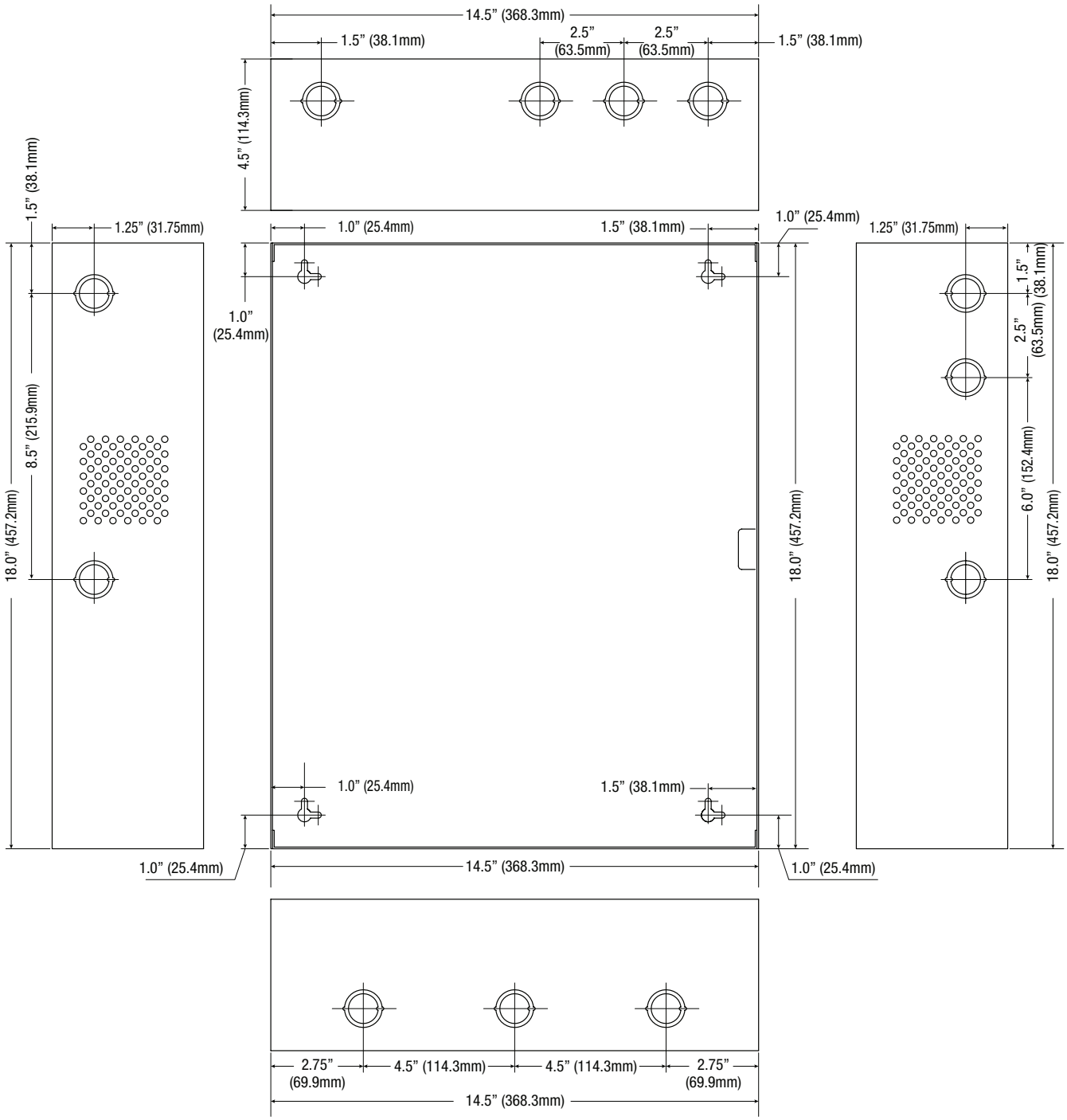

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