

M220 Series Multi-Output Power Supply/Chargers

Description

Altronix M220 series access control power supply/chargers are specifically designed for use with access control systems and accessories. These units convert a 220VAC (working range 198VAC - 256VAC), 50/60Hz input into five (5) individually protected 12VDC or 24VDC outputs (see specifications). Each output will route power to a variety of access control hardware devices including Mag Locks, Electric Strikes, Magnetic Door Holders, etc. These outputs will operate in both Fail-Safe and Fail-Secure modes. Controlled trigger input is achieved through normally open [NO] or normally closed [NC] supervised input or the polarity reversal from an FACP (Fire Alarm Control Panel). A form "C" dry output relay enables HVAC Shutdown, Elevator Recall or may be used to trigger auxiliary devices.



AL600M220

Key Features

- Fire Alarm Panel or Access Control System trigger inputs. [NO] or [NC] supervised trigger input and polarity reversal trigger input (4mA draw from FACP).
- Five (5) individual outputs (auto-resettable).
- Filtered and electronically regulated outputs.
- Thermal and short circuit protection with auto reset.
- Overload protection.
- Output relay energizes when unit is triggered (form "C" contact rated 1A @ 28VDC).
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence
- Built-in charger for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- Power and input trigger LEDs.
- DC output LED indicator.
- LEDs indicate condition of power outputs.
- Lifetime Warranty / Made in the U.S.A.
- All units are available in grey or red enclosure.

M220 Series Power Supply Configuration Reference Chart

Altronix Model Number	12VDC Total Output Current (A)	24VDC Total Output Current (A)	PTC Protected Outputs (auto-resettable)	220VAC 50/60Hz Input Current Draw (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Accommodates Batteries
AL300M220	2.5	2.5	5	1A	5A/250V	15A/32V	Two (2) 7AH
AL400M220	4	3		1.2A			Two (2) 7AH
AL600M220	6	6		1.5A			Two (2) 7AH
AL1012M220	10	—		2.2A		15A/32V	One (1) 12AH
AL1024M220	—	10		3A			Two (2) 12AH

M220 Series Multi-Output Power Supply/Chargers



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, see Reference Chart.

Protection PTC 2.5A.

Other Overvoltage protection.
Filtered and regulated outputs.

Back-up Battery *(not included)*

Capacity 7AH / 12VDC (AL300M220, AL400M220,
AL600M220).

12AH / 12VDC (AL1024M220).

Type Sealed lead acid or gel type.

Fuse Rating 15A @ 32VDC.

AL600M220 does not have a battery fuse.

Failover Upon AC loss, instantaneous.

Supervision

AC Failure Form "C" contacts.

Battery Form "C" contacts.

Indicators (LED)

Input 220VAC is present.

DC Output Powered.

Battery Discharged or not connected.

Power and Input Individual LEDs indicate outputs are
triggered (relays energized).

Physical and Environmental

Dimensions (H x W x D)

AL300M220, AL400M220, AL600M220:

13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm).

AL1012M220, AL1024M220:

15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

Product Weight / Shipping (approx.)

Model	Product Weight	Shipping Weight
AL300M220	7.6 lbs. (3.45 kg)	8.6 lbs. (3.9 kg)
AL400M220	7.6 lbs. (3.45 kg)	8.6 lbs. (3.9 kg)
AL600M220	7.9 lbs. (3.58 kg)	8.9 lbs. (4.04 kg)
AL1012M220	8.95 lbs. (4.06 kg)	10.25 lbs. (4.65 kg)
AL1024M220	10.8 lbs. (4.90 kg)	11.8 lbs. (5.35 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. (approx.):

Model	12VDC	24VDC
AL300M220	15	31
AL400M220	25	37
AL600M220	37	74
AL1012M220	61	N/A
AL1024M220	N/A	123