

Maximal V Series

Single Power Supply Access Power Controllers (Fused)



Maximal Access Power/Controllers distribute and switch power to access control systems and accessories. They convert a 220VAC (working range 198VAC - 256VAC), 50/60Hz input into sixteen (16) independently controlled 12VDC or 24VDC fuse protected outputs. These Fail-Safe/Fail-Secure power outputs may be converted to dry form “C” contacts. The outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Keypad, Push Button, REX PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. 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 sixteen (16) outputs.



Maximal5V

Key Features

- Sixteen (16) independently controlled outputs.
- Output options:
 - a) Sixteen (16) Fail-Safe and/or Fail-Secure power outputs.
 - b) Sixteen (16) form “C” 5A rated relay outputs.
 - c) Any combination of the above.
- Sixteen (16) 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 sixteen (16) 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

MaximalV Single Power Supply Series Configuration Reference Chart

Altronix Model Number	Power Supply Board Output Voltage Options	Fuse Protected Outputs	Maximum Current Per ACM8 Output	220VAC 50/60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
Maximal3V	12VDC @ 5A or 24VDC @ 5.4A	16	2.5A	1.5A	5A/250V	—
Maximal5V	12VDC @ 9A			2.2A		15A/32V
Maximal7V	24VDC @ 9.4A			3.0A	6.3A/250V	15A/32V

Lifetime Warranty



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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, See Reference Chart.

Protection Fused 3.5A.

Auxiliary 3.5A (unswitched).

Other Overvoltage protection.
Filtered and regulated outputs.

Back-up Battery (not included)

Capacity 12AH / 12VDC (up to 4 within enclosure).
40 AH / 65 AH (requires separate enclosure).

Type Sealed lead acid or gel type.

Fuse Rating 15A @ 32VDC
Maximal3V does not have a battery fuse.

Failover Upon AC loss, instantaneous.

Fire Alarm Disconnect

Supervised Latching or non-latching, individually selectable for any or all of the sixteen (16) outputs.

EOL 10K Resistor.

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)
26" x 19" x 6.25" (660.4mm x 482.6mm x 158.75mm).

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal3V	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal5V	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal7V	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 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
Maximal3V	31	67
Maximal5V	55	N/A
Maximal7V	N/A	115

Lifetime Warranty