

Maximal 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 115VAC, 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.



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
- UL Listed in the U.S. and Canada
- Lifetime Warranty

Maximal Single Power Supply Series Configuration Reference Chart

Altronix Model Number	115VAC 60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Power Supply Board Output Voltage Options	Fuse Protected Non Power-Limited Outputs	Maximum Current Per ACM8 Output
Maximal3	3.5A	5A/250V	-	12VDC @ 5A or 24VDC @ 5.4A	16	2.5A
Maximal5	2.6A		15A/32V	12VDC @ 9A		
Maximal7	4.4A	6.3A/250V	15A/32V	24VDC @ 9.4A		

Lifetime Warranty

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Specifications

Input

Voltage 115VAC, 60Hz
 Input Fuse Varies, See Reference Chart

Outputs

Voltage 12VDC or 24VDC, see Reference Chart
 Current Varies, See Reference Chart
 Protection Fused 3.5A
 Auxiliary 2.5A (unswitched)
 Other Overvoltage protection
 Filtered and regulated outputs

Back-up Battery *(not included)*

Capacity 12AH/12VDC (up to 4 within enclosure)
 40AH/65AH (requires separate enclosure)
 Type Sealed lead acid or gel type
 Fuse Rating 15A @ 32VDC
 Maximal3 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 sixteen (16) outputs

Supervision

AC Failure Form "C" contacts
 Battery Form "C" contacts

Indicators (LED)

Input 115VAC 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

UL:
UL294 Access Control System Units
 cUL:
C22.2 No.205-M1983 General Signaling Equipment
 CSFM California State Fire Marshall Approved

Physical and Environmental

Dimensions (H x W x D)

Enclosure:
 26" x 19" x 6.25" (660.4mm x 482.6mm x 158.8mm)
 Shipping:
 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)
 Enclosure accommodates up to four (4) 12VDC/12AH batteries

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal3	30.8 lb. (14.0 kg)	37.8 lb. (17.2 kg)
Maximal5	31.8 lb. (14.4 kg)	38.85 lb. (17.6 kg)
Maximal7	32.25 lb. (14.6 kg)	39.25 lb. (17.8 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
Maximal3	31	67
Maximal5	55	N/A
Maximal7	N/A	115

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