

## Maximal Series

### Dual 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.



Maximal75

### 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

### Lifetime Warranty

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Maximal Dual 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	Output Voltage Options		Total Output Current (16 outputs)	Class 2 Rated Power-Limited Outputs	Fuse Protected Outputs	Current per ACM8 output
				Power Supply 1	Power Supply 2				
Maximal11	7A	5A/250V	15A/32V	AL400ULXB2	AL400ULXB2		✓	16	2.5A
				12VDC @ 3.5A	12VDC @ 3.5A	7A			
				12VDC @ 2.7A	24VDC @ 2.7A	5.4A			
				24VDC @ 3.5A	24VDC @ 2.7A	6.2A			
Maximal33	7A	5A/250V	—	AL600ULXB	AL600ULXB		—	16	2.5A
				12VDC @ 5.5A	12VDC @ 5.5A	11A			
				12VDC @ 5.7A	24VDC @ 5.7A	11.4A			
				24VDC @ 5.5A	24VDC @ 5.7A	11.2A			
Maximal55	5.2A	5A/250V 6.3A/250V	15A/32V	AL1012ULXB	AL1012ULXB	19	—	16	2.5A
				12VDC @ 9.5A	12VDC @ 9.5A				
Maximal75	7A			AL1012ULXB	AL1024ULXB2	19.2			
				12VDC @ 9.5A	24VDC @ 9.5A				
Maximal77	8.8A	6.3A/250V	15A/32V	AL1024ULXB2	AL1024ULXB2	19.4	—	16	2.5A
				24VDC @ 9.7A	24VDC @ 9.7A				

### 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	3.5A (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 Maximal33 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
Maximal11	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33	31.6 lb. (14.3 kg)	38.6 lb. (17.5 kg)
Maximal55	32.6 lb. (14.8 kg)	39.6 lb. (18.0 kg)
Maximal75	33.0 lb. (15.0 kg)	40.0 lb. (18.1 kg)
Maximal77	33.4 lb. (15.2 kg)	40.4 lb. (18.3 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	12VDC and 24VDC
Maximal11	43	66	55
Maximal33	68	140	104
Maximal55	117	N/A	N/A
Maximal75	N/A	N/A	177
Maximal77	N/A	238	N/A

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