

**MaximalR Series**  
**Rack Access Power Controllers (fused)**

**Description**

Maximal Rack Mount Series units distribute and switch power to access control systems and accessories. They convert a 115VAC 50/60Hz input into eight (8) or sixteen (16) independently controlled 12VDC and/or 24VDC fuse protected outputs. Outputs are activated by a normally open (NO) or normally closed (NC) 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 outputs.



Maximal3RH

**Key Features**

- Eight (8) or Sixteen (16) independently controlled fuse protected 12VDC and/or 24VDC outputs.
- Individually selectable Mag Lock/Strike (Fail-Safe, Fail-Secure) solid state fuse protected outputs.
- Thermal and short circuit protection with auto reset.
- Supervision:
  - AC Fail
  - Low Battery.
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the outputs.
- 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.
- Lifetime Warranty / Made in the U.S.A.

**MaximalR Power Supply Series Configuration Reference Chart**

| Altronix Model Number | Power Supply 1 (8 outputs) | Power Supply 2 (8 outputs) | Total Output Current | Fuse Protected Outputs | Maximum Current Per ACM8R-M Output | 115VAC 50/60Hz Input Current | Power Supply Board Input Fuse Rating |
|-----------------------|----------------------------|----------------------------|----------------------|------------------------|------------------------------------|------------------------------|--------------------------------------|
| <b>Maximal1RH</b>     | 12VDC @ 4A                 | N/A                        | 4A                   | 8                      | 2.5A                               | 1.9A                         | 5A/250V                              |
|                       | 24VDC @ 3A                 | N/A                        | 3A                   |                        |                                    |                              |                                      |
| <b>Maximal1R</b>      | 12VDC @ 4A                 | N/A                        | 4A                   | 16                     | 2.5A                               | 1.9A                         | 5A/250V                              |
|                       | 24VDC @ 3A                 | N/A                        | 3A                   |                        |                                    |                              |                                      |
| <b>Maximal3RH</b>     | 12VDC @ 6A                 | N/A                        | 6A                   | 8                      | 2.5A                               | 1.9A                         | 3.5A/250V                            |
|                       | 24VDC @ 6A                 | N/A                        |                      |                        |                                    |                              |                                      |
| <b>Maximal3R</b>      | 12VDC @ 6A                 | N/A                        | 6A                   | 16                     | 2.5A                               | 1.9A                         | 3.5A/250V                            |
|                       | 24VDC @ 6A                 |                            |                      |                        |                                    |                              |                                      |
| <b>Maximal33R</b>     | 12VDC @ 6A                 | 12VDC @ 6A                 | 12A                  | 16                     | 2.5A                               | 3.8A                         | 3.5A/250V                            |
|                       | 24VDC @ 6A                 | 24VDC @ 6A                 |                      |                        |                                    |                              |                                      |
|                       | 12VDC @ 6A                 | 24VDC @ 6A                 |                      |                        |                                    |                              |                                      |

## MaximalR Series

### Dual P/S Access Power Controllers (fused)

#### Specifications

##### Input

Voltage 115VAC, 50/60Hz.  
 Fusing Varies, See Reference Chart.

##### Outputs

Voltage 12VDC and/or 24VDC, see Reference Chart.  
 Current Varies, see Reference Chart.  
 Protection Fused 2.5A.  
 Other Overvoltage protection.  
 Filtered and regulated outputs.

##### Back-up Battery *(separate enclosure is required)*

Type Sealed lead acid or gel type.  
 Fuse Rating 15A @ 32VDC (Maximal1RH and Maximal1R);  
 Maximal3RH, Maximal3R, and Maximal33R  
 do 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 outputs.

##### Supervision

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

##### Indicators (LED)

Input Illuminated ON/Reset Switch.  
 Output Individual Output Status LEDs  
 located on the front panel.

##### Physical and Environmental

Dimensions (H x W x D)  
 3.25" x 19.125" x 8.5" (82.55mm x 485.78mm x 215.9mm).

##### Weight (approx.)

| Model      | Product Weight       | Shipping Weight     |
|------------|----------------------|---------------------|
| Maximal1RH | 10.7 lbs. (4.85 kg)  | 12.7 lbs (5.76kg)   |
| Maximal1R  | 10.7 lbs. (4.85 kg)  | 12.7 lbs (5.76kg)   |
| Maximal3RH | 10.85 lbs. (4.92 kg) | 12.85 lbs (5.83 kg) |
| Maximal3R  | 10.85 lbs. (4.92 kg) | 12.85 lbs (5.83 kg) |
| Maximal33R | 12.4 lbs. (5.62 kg)  | 14.3 lbs (6.49kg)   |

##### 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 | 12 and 24VDC |
|------------|-------|-------|--------------|
| Maximal1RH | 25    | 37    | N/A          |
| Maximal1R  | 25    | 37    | N/A          |
| Maximal3RH | 37    | 74    | N/A          |
| Maximal3R  | 37    | 74    | N/A          |
| Maximal33R | 74    | 141   | 106          |