

MaximalRV Series

Rack Access Power Controllers (fused)



Maximal Rack Mount Series units distribute and switch power to access control systems and accessories. They convert a 220VAC 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.



Maximal3RHV

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

MaximalRV Power Supply Series Configuration Reference Chart

| Altronix Model Number | 220VAC 50/60Hz Input Current | Power Supply Board Input Fuse Rating | Power Supply 1 (8 outputs) | Power Supply 2 (8 outputs) | Total Output Current | Fuse Protected Outputs | Maximum Current Per ACM8R-M Output |
|-----------------------|------------------------------|--------------------------------------|----------------------------|----------------------------|----------------------|------------------------|------------------------------------|
| Maximal1RHV | 0.9A | 5A/250V | 12VDC @ 4A | N/A | 4A | 8 | 2.5A |
| | | | 24VDC @ 3A | N/A | 3A | | |
| Maximal1RV | 0.9A | 5A/250V | 12VDC @ 4A | N/A | 4A | 16 | 2.5A |
| | | | 24VDC @ 3A | N/A | 3A | | |
| Maximal3RHV | 0.9A | 3.5A/250V | 12VDC @ 6A | N/A | 6A | 8 | 2.5A |
| | | | 24VDC @ 6A | N/A | | | |
| Maximal3RV | 0.9A | 3.5A/250V | 12VDC @ 6A | N/A | 6A | 16 | 2.5A |
| | | | 24VDC @ 6A | | | | |
| Maximal33RV | 1.9A | 3.5A/250V | 12VDC @ 6A | 12VDC @ 6A | 12A | 16 | 2.5A |
| | | | 24VDC @ 6A | 24VDC @ 6A | | | |
| | | | 12VDC @ 6A | 24VDC @ 6A | | | |

Lifetime Warranty

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Specifications

Input

Voltage 220VAC (working range 198VAC - 256VAC), 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
(Maximal1RHV and Maximal1RV);
Maximal3RHV, Maximal3RV and
Maximal33RV 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

2U rack mount chassis for use in standard EIA 19" rack.

Dimensions (H x W x D):

Enclosure:

3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm)

Shipping:

20.25" x 12.5" x 7.25" (514.4mm x 317.5mm x 184.2mm)

Weight (approx.):

| Model | Product Weight | Shipping Weight |
|-------------|---------------------|---------------------|
| Maximal1RHV | 10.7 lb. (4.85 kg) | 12.7 lb. (5.76kg) |
| Maximal1RV | 10.7 lb. (4.85 kg) | 12.7 lb. (5.76kg) |
| Maximal3RHV | 10.85 lb. (4.92 kg) | 12.85 lb. (5.83 kg) |
| Maximal3RV | 10.85 lb. (4.92 kg) | 12.85 lb. (5.83 kg) |
| Maximal33RV | 12.4 lb. (5.62 kg) | 14.3 lb. (6.49 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 | 12 and 24VDC |
|-------------|-------|-------|--------------|
| Maximal1RHV | 25 | 37 | N/A |
| Maximal1RV | 25 | 37 | N/A |
| Maximal3RHV | 37 | 74 | N/A |
| Maximal3RV | 37 | 74 | N/A |
| Maximal33RV | 74 | 141 | 106 |

Accessories (order separately)



RE2 – Rack Mount Battery Enclosure

- Accommodates up to four (4) 12VDC/7AH batteries

Lifetime Warranty