Altronix®

Maximal R Series

Rack Access Power Controllers (fused)

MAXIMAL®

Altronix Maximal R Rack Mount Access Power Controllers 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

Maximal R Power Supply Series Configuration Reference Chart

Altronix Model Number	115VAC 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
Maximal1RH	1.9A	5A/250V	12VDC @ 4A	N/A	4A	8	2.5A
			24VDC @ 3A	N/A	3A		
Maximal1R	1.9A	5A/250V	12VDC @ 4A	N/A	4A	16	2.5A
			24VDC @ 3A	N/A	3A		
Maximal3RH	1.9A	3.5A/250V	12VDC @ 6A	N/A	6A	8	2.5A
			24VDC @ 6A	N/A			
Maximal3R	1.9A	3.5A/250V	12VDC @ 6A	N/A	6A	16	2.5A
			24VDC @ 6A				
Maximal33R	3.8A	3.5A/250V	12VDC @ 6A	12VDC @ 6A	12A	16	2.5A
			24VDC @ 6A	24VDC @ 6A			
			12VDC @ 6A	24VDC @ 6A			

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Specifications

Input
Voltage	115VAC, 50/60Hz
Input Fuse	Varies, See Reference Chart

Outputs
Voltage	12VDC and/or 24VDC, see Reference Chart
Current	Varies, see Reference Chart
Output Fuses	3.5A/250V
Other	Overvoltage protection Filtered and regulated outputs

Battery Charging
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous

Batteries are sold separately. Separate enclosure is required

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
Maximal1RH	10.7 lb. (4.85 kg)	12.7 lb. (5.76kg)
Maximal1R	10.7 lb. (4.85 kg)	12.7 lb. (5.76kg)
Maximal3RH	10.85 lb. (4.92 kg)	12.85 lb. (5.83 kg)
Maximal3R	10.85 lb. (4.92 kg)	12.85 lb. (5.83 kg)
Maximal33R	12.4 lb. (5.62 kg)	14.3 lb. (6.49 kg)

Temperature
Operating:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)

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

Accessories (order separately)

RE2

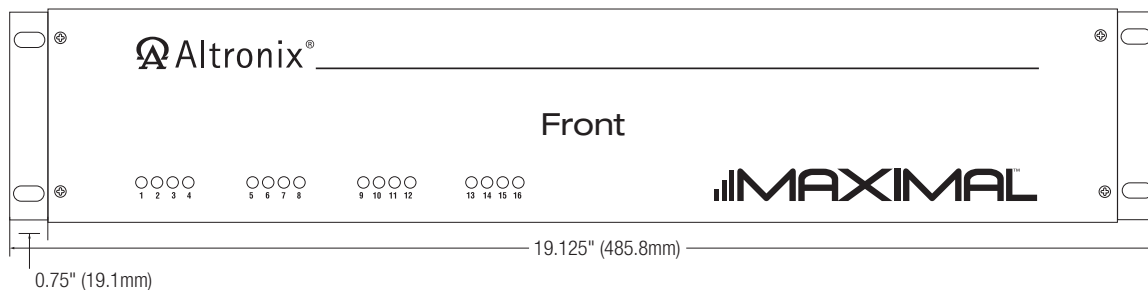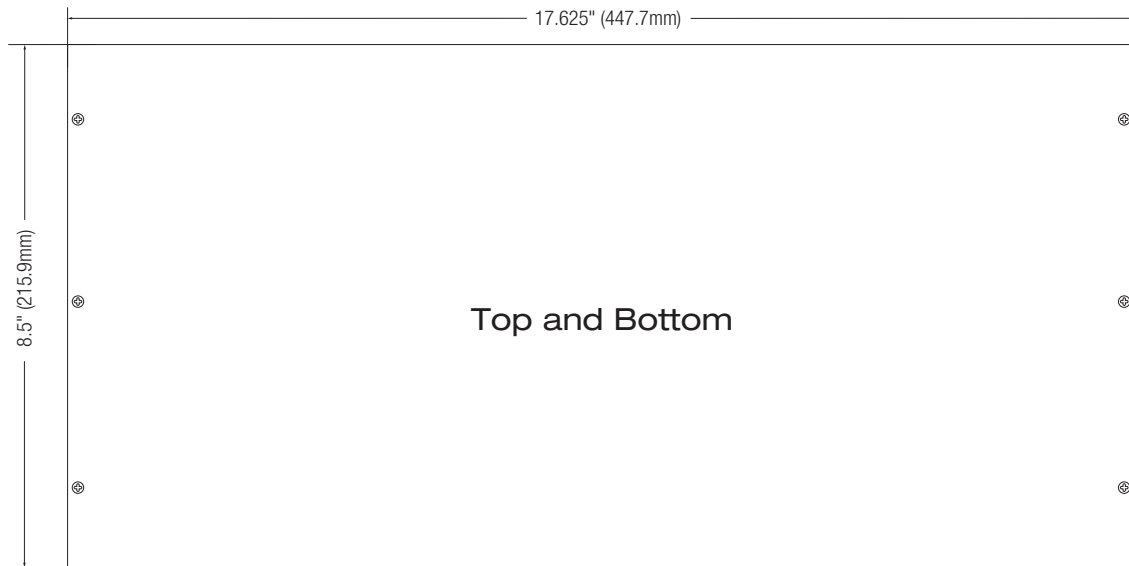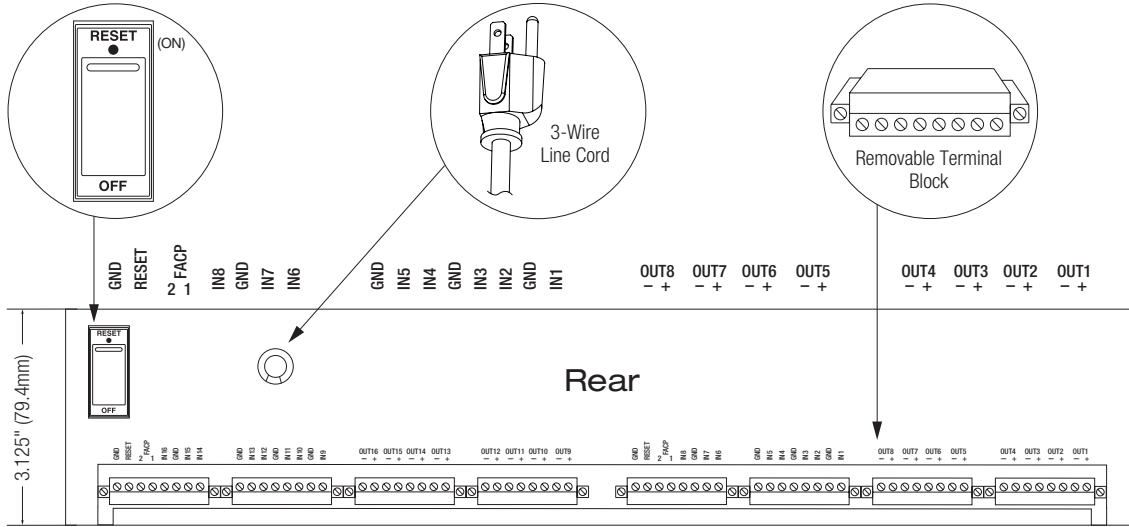**RE2 – Rack Mount Battery Enclosure**
- Accommodates up to four (4) 12VDC/7AH batteries

Dimensions and Drawing

Dimensions (H x W x D approximate)
3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm)

3-Wire
Line Cord

Removable Terminal
Block

Rear

3.125" (79.4mm)

17.625" (447.7mm)

8.5" (215.9mm)

Top and Bottom

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Front

ılMAXIMAL™

1 2 3 4   5 6 7 8   9 10 11 12   13 14 15 16

19.125" (485.8mm)

0.75" (19.1mm)