Altronix®

Rev. 03222023

Maximal RDV Series

Rack Access Power Controllers (PTC)

MAXIMAL®

Maximal3RHDV

Altronix Maximal RDV Rack Mount Access Power Controllers 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 PTC protected outputs. Outputs are activated by an 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.

Key Features

- Eight (8) or Sixteen (16) independently controlled PTC protected 12VDC and/or 24VDC outputs
- Individually selectable Mag Lock/Strike (Fail-Safe, Fail-Secure) solid state PTC 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 RDV 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	PTC Protected Auto-Resettable Outputs	Maximum Current Per ACM8CBR-M Output
Maximal1RHDV	0.9A	5A/250V	12VDC @ 4A	N/A	4A	8	2.0A
			24VDC @ 3A	N/A	3A		
Maximal1RDV	0.9A	5A/250V	12VDC @ 4A	N/A	4A	16	2.0A
			24VDC @ 3A	N/A	3A		
Maximal3RHDV	0.9A	3.5A/250V	12VDC @ 6A	N/A	6A	8	2.0A
			24VDC @ 6A	N/A			
Maximal3RDV	0.9A	3.5A/250V	12VDC @ 6A	N/A	6A	16	2.0A
			24VDC @ 6A				
Maximal33RDV	1.9A	3.5A/250V	12VDC @ 6A	12VDC @ 6A	12A	16	2.0A
			24VDC @ 6A	24VDC @ 6A			
			12VDC @ 6A	24VDC @ 6A			

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Specifications

Input

Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz
Input Fuse	Varies, See Reference Chart

Outputs

Voltage	12VDC and/or 24VDC see Reference Chart
Current	Varies, see Reference Chart
Output PTCs	2.5A
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
Maximal1RHDV	10.7 lb. (4.85 kg)	12.7 lb. (5.76kg)
Maximal1RDV	10.7 lb. (4.85 kg)	12.7 lb. (5.76kg)
Maximal3RHDV	10.85 lb. (4.92 kg)	12.85 lb. (5.83 kg)
Maximal3RDV	10.85 lb. (4.92 kg)	12.85 lb. (5.83 kg)
Maximal33RDV	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	20 to 85%, non-condensing

BTU/Hr. (approx.)

Model	12VDC	24VDC	12 and 24VDC
Maximal1RHDV	25	37	N/A
Maximal1RDV	25	37	N/A
Maximal3RHDV	37	74	N/A
Maximal3RDV	37	74	N/A
Maximal33RDV	74	141	106

Accessories (order separately)

RE2

RE2 – Rack Mount Battery Enclosure

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

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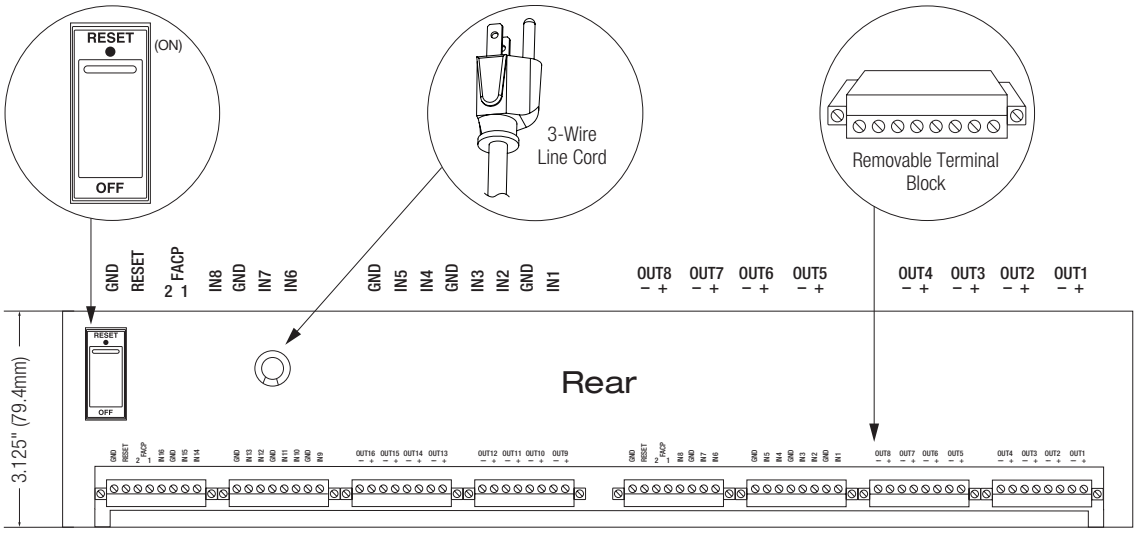
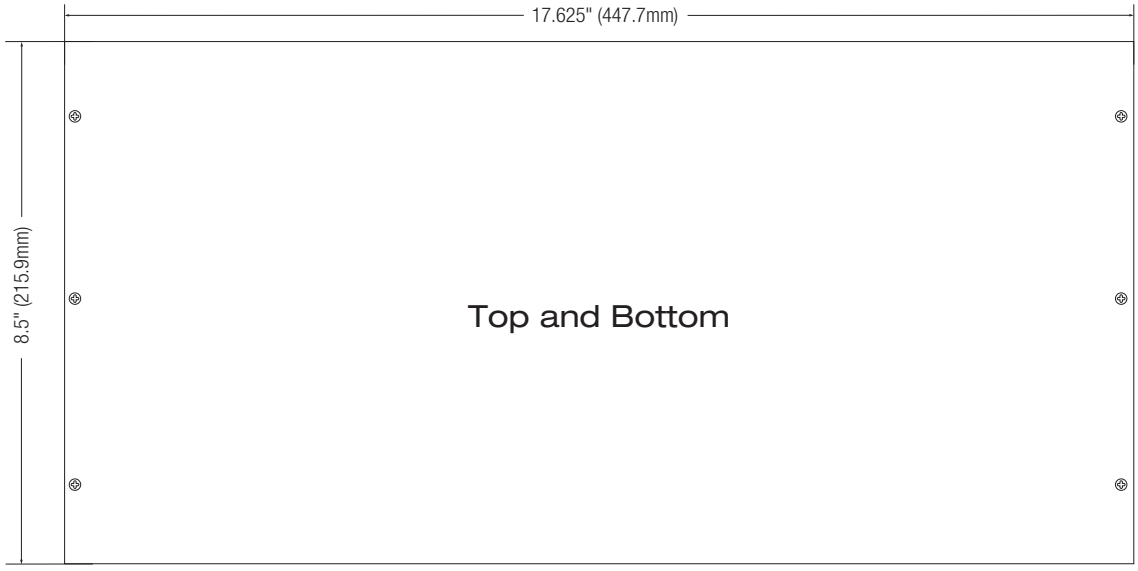
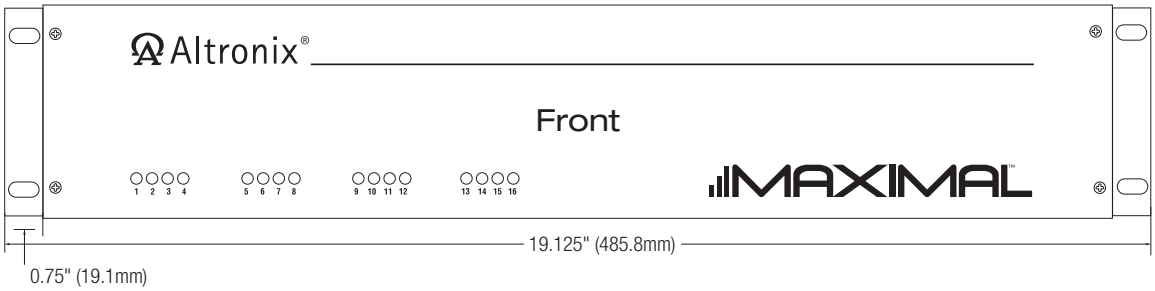
Dimensions and Drawing

Dimensions (H x W x D approximate)

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







Lifetime Warranty

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