

MaximalRD Series

Rack Access Power Controllers (PTC)



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 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.



Maximal3RHD

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

MaximalR Power Supply Series Configuration Reference Chart

Altronix Model Number	Power Supply 1 (8 outputs)	Power Supply 2 (8 outputs)	Total Output Current	PTC Protected Auto-Resettable Outputs	Maximum Current Per ACM8CBR-M Output	115VAC, 50/60Hz Input Current	Power Supply Board Input Fuse Rating
Maximal1RHD	12VDC @ 4A	N/A	4A	8	2.0A	1.9A	5A/250V
	24VDC @ 3A	N/A	3A				
Maximal1RD	12VDC @ 4A	N/A	4A	16	2.0A	1.9A	5A/250V
	24VDC @ 3A	N/A	3A				
Maximal3RHD	12VDC @ 6A	N/A	6A	8	2.0A	1.9A	3.5A/250V
	24VDC @ 6A	N/A					
Maximal3RD	12VDC @ 6A	N/A	6A	16	2.0A	1.9A	3.5A/250V
	24VDC @ 6A						
Maximal33RD	12VDC @ 6A	12VDC @ 6A	12A	16	2.0A	3.8A	3.5A/250V
	24VDC @ 6A	24VDC @ 6A					
	12VDC @ 6A	24VDC @ 6A					

Lifetime Warranty

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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 PTC 2.0A.
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
(Maximal1RHD and Maximal1RD);
Maximal3RHD, Maximal3RD,
and Maximal33RD 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" (82.6mm x 485.8mm x 215.9mm).

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal1RHD	10.7 lbs. (4.85 kg)	12.7 lbs (5.76kg)
Maximal1RD	10.7 lbs. (4.85 kg)	12.7 lbs (5.76kg)
Maximal3RHD	10.85 lbs. (4.92 kg)	12.85 lbs (5.83 kg)
Maximal3RD	10.85 lbs. (4.92 kg)	12.85 lbs (5.83 kg)
Maximal33RD	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
Maximal1RHD	25	37	N/A
Maximal1RD	25	37	N/A
Maximal3RHD	37	74	N/A
Maximal3RD	37	74	N/A
Maximal33RD	74	141	106

Accessories (order separately)



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

Lifetime Warranty