

## MaximalRDV 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 220VAC 50/60Hz input into eight (8) or sixteen (16) independently controlled 12VDC and/or 24VDC PTC 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.



Maximal3RHDV

#### 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 / Made in the U.S.A.

#### MaximalRDV 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	220VAC 50/60Hz Input Current	Power Supply Board Input Fuse Rating
Maximal1RHDV	12VDC @ 4A	N/A	4A	8	2.0A	0.9A	5A/250V
	24VDC @ 3A	N/A	3A				
Maximal1RDV	12VDC @ 4A	N/A	4A	16	2.0A	0.9A	5A/250V
	24VDC @ 3A	N/A	3A				
Maximal3RHDV	12VDC @ 6A	N/A	6A	8	2.0A	0.9A	3.5A/250V
	24VDC @ 6A	N/A					
Maximal3RDV	12VDC @ 6A	N/A	6A	16	2.0A	0.9A	3.5A/250V
	24VDC @ 6A						
Maximal33RDV	12VDC @ 6A	12VDC @ 6A	12A	16	2.0A	1.9A	3.5A/250V
	24VDC @ 6A	24VDC @ 6A					
	12VDC @ 6A	24VDC @ 6A					

**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 PTC 2.0A.  
 Other Overvoltage protection.  
 Filtered and regulated outputs.

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

Type Sealed lead acid or gel type.  
 Charging current 0.7A.  
 Fuse Rating 15A @ 32VDC  
 (Maximal1RHDV and Maximal1RDV);  
 Maximal3RHDV, Maximal3RDV,  
 and Maximal33RDV 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
Maximal1RHDV	10.7 lbs. (4.85 kg)	12.7 lbs (5.76kg)
Maximal1RDV	10.7 lbs. (4.85 kg)	12.7 lbs (5.76kg)
Maximal3RHDV	10.85 lbs. (4.92 kg)	12.85 lbs (5.83 kg)
Maximal3RDV	10.85 lbs. (4.92 kg)	12.85 lbs (5.83 kg)
Maximal33RDV	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
Maximal1RHDV	25	37	N/A
Maximal1RDV	25	37	N/A
Maximal3RHDV	37	74	N/A
Maximal3RDV	37	74	N/A
Maximal33RDV	74	141	106