

Maximal V Series

Dual Power Supply Access Power Controllers (Fused)

Maximal Access Power/Controllers distribute and switch power to access control systems and accessories. They convert a 220VAC (working range 198VAC - 256VAC), 50/60Hz input into sixteen (16) independently controlled 12VDC or 24VDC fuse protected outputs. These Fail-Safe/Fail-Secure power outputs may be converted to dry form "C" contacts. The outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Keypad, Push Button, REX PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. 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 sixteen (16) outputs.



Key Features

- Sixteen (16) independently controlled outputs
 - Output options:
 - a) Sixteen (16) Fail-Safe and/or Fail-Secure power outputs
 - b) Sixteen (16) form "C" 5A rated relay outputs
 - c) Any combination of the above
- Sixteen (16) auxiliary power outputs (unswitched)
- Output fuses are rated @ 3.5A
- Filtered and electronically regulated outputs
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the sixteen (16) outputs
- Alarm output relay indicates that FACP input is triggered
- 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
- CE European Conformity
- Lifetime Warranty

Lifetime Warranty

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Maximal V Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	220VAC 50/60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Output Voltage Options		Total Output Current (16 outputs)	Power-Limited Outputs	Fuse Protected Outputs	Current per ACM8 output
				Power Supply 1	Power Supply 2				
Maximal11V	3A	5A/250V	15A/32V	AL400XB2V	AL400XB2V		✓	16	2.5A
				12VDC @ 3.5A	12VDC @ 3.5A	7A			
				12VDC @ 2.7A	24VDC @ 2.7A	5.4A			
				24VDC @ 3.5A	24VDC @ 2.7A	6.2A			
Maximal33V	3A	5A/250V	-	AL400XB2V	AL400XB2V		-	16	2.5A
				12VDC @ 5.5A	12VDC @ 5.5A	11A			
				12VDC @ 5.7A	24VDC @ 5.7A	11.4A			
				24VDC @ 5.5A	24VDC @ 5.7A	11.2A			
Maximal55V	2.6A	5A/250V	15A/32V	AL400XB2V	AL400XB2V	19	-	16	2.5A
				12VDC @ 9.5A	12VDC @ 9.5A				
Maximal75V	3.8A	5A/250V 6.3A/250V	15A/32V	AL1012XB220	AL1024XB2V	19.2	-	16	2.5A
				12VDC @ 9.5A	24VDC @ 9.5A				
Maximal77V	5A	6.3A/250V	15A/32V	AL1024XB2V	AL1024XB2V	19.4	-	16	2.5A
				24VDC @ 9.7A	24VDC @ 9.7A				

Lifetime Warranty

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Specifications

Input

Voltage 220VAC (working range 198VAC - 256VAC), 50/60Hz

Fusing Varies, See Reference Chart

Outputs

Voltage 12VDC or 24VDC, see Reference Chart

Current Varies, depending on the model

Protection Fused 3.5A

Auxiliary 3.5A (unswitched)

Other Overvoltage protection
Filtered and regulated outputs

Back-up Battery *(not included)*

Capacity 12AH/12VDC (up to 4 within enclosure)
40AH/65AH (requires separate enclosure)

Type Sealed lead acid or gel type

Fuse Rating 15A @ 32VDC
Maximal33V does 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 sixteen (16) outputs

EOL 10K Resistor

Supervision

AC Failure Form "C" contacts

Battery Form "C" contacts

Indicators (LED)

Input 220VAC is present

DC Output Powered

Battery Discharged or not connected

Relays Individual LEDs indicate outputs are triggered (relays energized)

FACP Indicates FACP disconnect is triggered

Agency Listings

CE European Conformity

Physical and Environmental

Dimensions (H x W x D)

Enclosure: 26" x 19" x 6.25" (660.4mm x 482.6mm x 158.8mm)

Shipping: 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)

Enclosure accommodates up to four (4) 12VDC/12AH batteries

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal11V	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33V	31.6 lb. (14.3 kg)	38.6 lb. (17.5 kg)
Maximal55V	32.6 lb. (14.8 kg)	39.6 lb. (18.0 kg)
Maximal75V	33.0 lb. (15.0 kg)	40.0 lb. (18.1 kg)
Maximal77V	33.4 lb. (15.2 kg)	40.4 lb. (18.3 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	12VDC and 24VDC
Maximal11V	43	66	55
Maximal33V	68	140	104
Maximal55V	117	N/A	N/A
Maximal75V	N/A	N/A	177
Maximal77V	N/A	238	N/A

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