

MaximalV Series

Dual P/S Access Power Controllers (fused)

Description

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
- Lifetime Warranty / Made in the U.S.A.

MaximalV Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Total Output Current (16 outputs)	Fuse Protected Outputs	220VAC 50/60Hz Input Current	Current per ACM8 output	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
	Power Supply 1	Power Supply 2						
Maximal11V	AL400XB2V	AL400XB2V		16	2.4A	2.5A	5A/250V	15A/32V
	12VDC @ 3.5A	12VDC @ 3.5A	7A					
	12VDC @ 2.7A	24VDC @ 2.7A	5.4A					
Maximal33V	24VDC @ 3.5A	24VDC @ 2.7A	6.2A		3A	2.5A	5A/250V	-
	AL600XB220	AL600XB220						
	12VDC @ 5.5A	12VDC @ 5.5A	11A					
Maximal55V	12VDC @ 5.7A	24VDC @ 5.7A	11.4A		3A	2.5A	5A/250V	-
	24VDC @ 5.5A	24VDC @ 5.7A	11.2A					
	AL1012XB220	AL1012XB220	19					
Maximal75V	12VDC @ 9.5A	12VDC @ 9.5A	19.2	5A	2.5A	5A/250V 6.3A/250V	15A/32V	
	AL1012XB220	AL1024XB2V						
Maximal77V	12VDC @ 9.5A	24VDC @ 9.5A	19.4	6A	2.5A	6.3A/250V	-	
	AL1024XB2V	AL1024XB2V						
	24VDC @ 9.7A	24VDC @ 9.7A						

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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).
40 AH / 65 AH (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.

Physical and Environmental

Dimensions (H x W x D)

26" x 19" x 6.25" (660.4mm x 482.6mm x 158.75mm).

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal11V	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal33V	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal55V	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal75V	43.7 lbs. (19.82 kg)	47.7 lbs. (21.64 kg)
Maximal77V	43.3 lbs. (19.64 kg)	47.3 lbs. (21.45 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	12 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