

Maximal 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 115VAC, 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.



Maximal75

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.
- UL Listed in the U.S. and Canada.
- Lifetime Warranty / Made in the U.S.A.

Maximal Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Total Output Current (16 outputs)	Fuse Protected Outputs	115VAC 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							
Maximal11	AL400ULXB2	AL400ULXB2		16	7A	2.5A	5A/250V	15A/32V	
	12VDC @ 3.5A	12VDC @ 3.5A	7A						
	12VDC @ 2.7A	24VDC @ 2.7A	5.4A						
	24VDC @ 3.5A	24VDC @ 2.7A	6.2A						
Maximal33	AL600ULXB	AL600ULXB			7A	2.5A		5A/250V	—
	12VDC @ 5.5A	12VDC @ 5.5A	11A						
	12VDC @ 5.7A	24VDC @ 5.7A	11.4A						
	24VDC @ 5.5A	24VDC @ 5.7A	11.2A						
Maximal55	AL1012ULXB	AL1012ULXB	19		5.2A	2.5A	5A/250V 6.3A/250V	15A/32V	
	12VDC @ 9.5A	12VDC @ 9.5A							
Maximal75	AL1012ULXB	AL1024ULXB2	19.2		7A	2.5A	5A/250V 6.3A/250V		15A/32V
	12VDC @ 9.5A	24VDC @ 9.5A							
Maximal77	AL1024ULXB2	AL1024ULXB2	19.4		8.8A	2.5A	6.3A/250V		15A/32V
	24VDC @ 9.7A	24VDC @ 9.7A							

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Specifications

Input

Voltage 115VAC, 60Hz.
 Fusing Varies, See Reference Chart.

Outputs

Voltage 12VDC or 24VDC, see Reference Chart.
 Current Varies, See Reference Chart.
 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
 Maximal33 does not have a battery fuse.
 Failover Upon AC loss, instantaneous.

Fire Alarm Disconnect

Latching or non-latching, individually selectable for any or all of the sixteen (16) outputs.

Supervision

AC Failure Form "C" contacts.
 Battery Form "C" contacts.

Indicators (LED)

Input 115VAC 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

UL:
 UL294 Access Control System Units.
 cUL:
 C22.2 No.205-M1983 General Signaling Equipment;
 CSFM California State Fire Marshall Approved.

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
Maximal11	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33	31.6 lb. (14.3 kg)	38.6 lb. (17.5 kg)
Maximal55	32.6 lb. (14.8 kg)	39.6 lb. (18.0 kg)
Maximal75	33.0 lb. (15.0 kg)	40.0 lb. (18.1 kg)
Maximal77	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
Maximal11	43	66	55
Maximal33	68	140	104
Maximal55	117	N/A	N/A
Maximal75	N/A	N/A	177
Maximal77	N/A	238	N/A