

Maximal F Series

Single Power Supply Access Power Controllers (Fused)



Altronix Maximal F Series Access Power Controllers distribute and switch power to access control systems and accessories. They convert a 120VAC, 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.



Maximal5F

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
 - Low power shutdown
- 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
- CE European Conformity
- Lifetime Warranty

Accessories (order separately)



LINQ2

LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email

Lifetime Warranty



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Maximal F Single Power Supply Series Configuration Reference Chart

Altronix Model Number	120VAC 60Hz Input Current Draw (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8 Access Power Controller's outputs (A)	Fuse Protected Non Power-Limited Outputs	Current Per ACM8 Output (A)	ACM8 Board Input Fuse Rating	ACM8 Board Output Fuse Rating
				[DC]		[Aux]						
				12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)					
Maximal3F	3.5	5A/250V	10A/32V	10.0-13.2	20.19-26.4	10.03-13.2	20.19-26.4	12VDC @ 4.6A or 24VDC @ 5.2A	16	2.5	10A/250V	2.5A/250V
Maximal5F	3.5	5A/250V	15A/32V	10.03-13.2	-	10.03-13.2	-	8.6A		2.5	10A/250V	2.5A/250V
Maximal7F	4.5	6.3A/250V	15A/32V	-	20.17-26.4	-	20.28-26.4	9.2A		2.5	10A/250V	2.5A/250V

Lifetime Warranty

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Specifications

Input

Voltage 120VAC, 60Hz
 Input Fuse Varies, see Reference Chart

Outputs

Voltage 12VDC or 24VDC, see Reference Chart
 Current Varies, see Reference Chart
 Output Fuses 3.5A/250V
 Auxiliary 3.5A (unswitched)
 Other Overvoltage protection
 Filtered and regulated outputs

Battery Charging

Capacity 12AH/12VDC (4 within enclosure)
 40AH/65AH (requires separate enclosure)
 Type Sealed lead acid or gel type
 Fuse Rating Varies, see Reference Chart
 Failover Upon AC loss, instantaneous
 Batteries are sold separately

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

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops
 below 71-73% for 12V units and 70-75% for 24V units
 (depending on the power supply)
 Prevents deep battery discharge

Indicators (LED)

Input 120VAC is present
 DC Output Powered
 Relays Individual LEDs indicate outputs are
 triggered (relays energized)
 FACP Indicates FACP disconnect is triggered

Agency Listings

UL:
UL294 Access Control System Units
 cUL:
ULC-S319-05 Electronic Access Control Systems
 Class I equipment
CSA C22.2 No.205 Signal Equipment
CSFM California State Fire Marshall Approved
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
Maximal3F	31.8 lb. (14.4 kg)	38.8 lb. (17.6 kg)
Maximal5F	31.9 lb. (14.5 kg)	38.9 lb. (17.6 kg)
Maximal7F	32.0 lb. (14.6 kg)	39.0 lb. (17.7 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.)

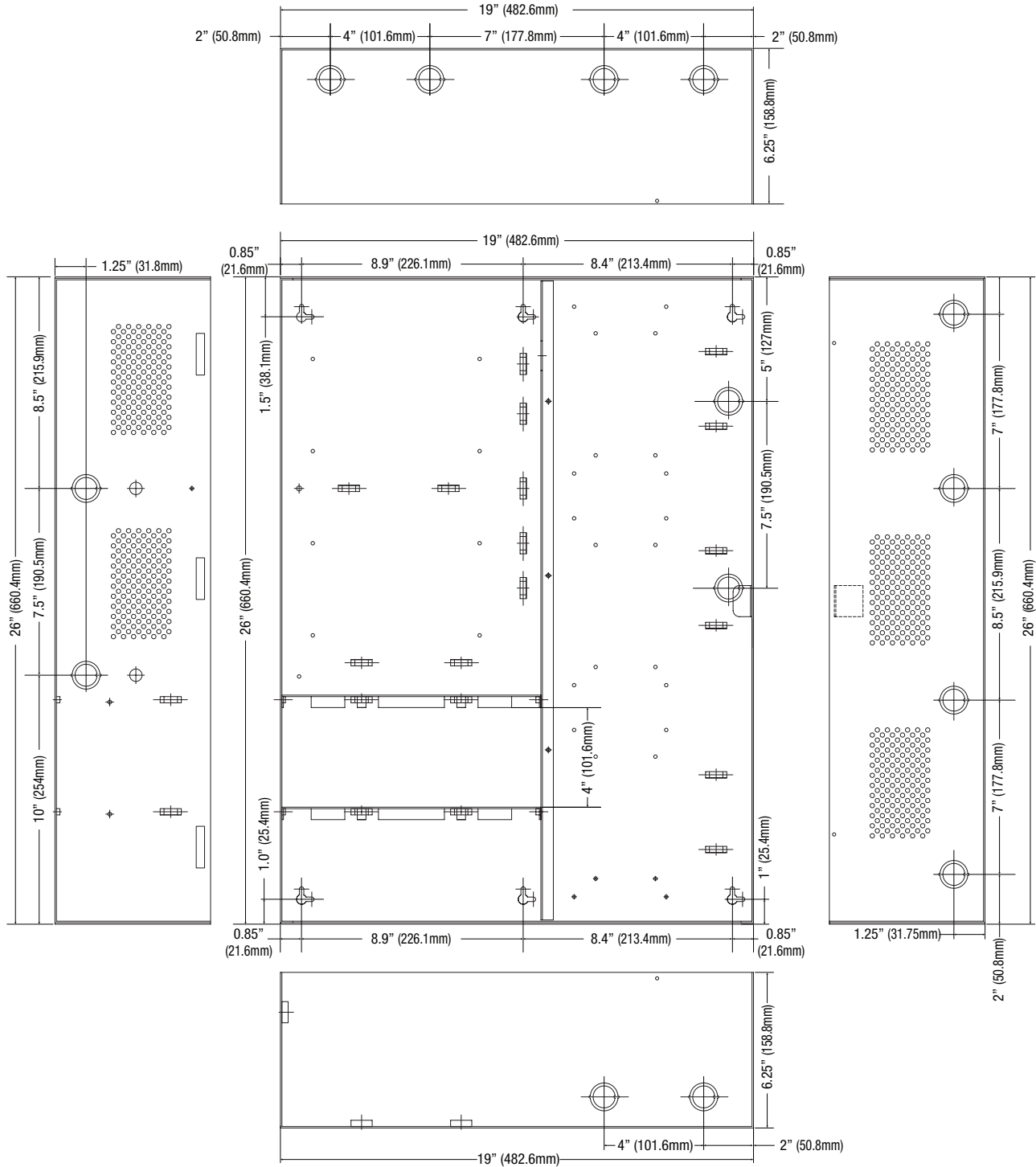
Model	12VDC	24VDC
Maximal3F	28	64
Maximal5F	53	N/A
Maximal7F	N/A	113

Lifetime Warranty

Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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