

## Maximal F Series

### Dual 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.



### 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 - 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

## Maximal F Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	120VAC 60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	DC Output Voltage Options								Maximum Supply Current for Main and Aux. Outputs (P/S 1 / P/S 2)	Fuse Protected Outputs	Class 2 Rated Power-Limited Outputs	Current per ACM8 Output (A)	ACM8 Board Input Fuse Rating
				Power Supply 1				Power Supply 2								
				[DC]		[AUX]		[DC]		[AUX]						
				12 VDC	24 VDC	12 VDC	24 VDC	12 VDC	24 VDC	12 VDC	24 VDC					
Maximal11F	7A	5A/250V	7.5A/32V	eFlow4NB				eFlow4NB				–	16	✓	2.5	10A/250V
				✓	–	✓	–	✓	–	✓	–	3.3A + 3.3A				
				✓	–	✓	–	–	✓	–	✓	3.3A + 3.6A				
				–	✓	–	✓	–	✓	–	✓	3.6A + 3.6A				
Maximal33F	7A	5A/250V	10A/32V	eFlow6NB				eFlow6NB				–	16	–	2.5	10A/250V
				✓	–	✓	–	✓	–	✓	–	5.3A + 5.3A				
				✓	–	✓	–	–	✓	–	✓	5.3A + 5.6A				
				–	✓	–	✓	–	✓	–	✓	5.6A + 5.6A				
Maximal55F	7A	5A/250V	15A/32V	eFlow102NB				eFlow102NB				9.3A + 9.3A	16	–	2.5	10A/250V
				✓	–	✓	–	✓	–	✓	–					
Maximal75F	8A	5A/250V 6.3A/250V	15A/32V	eFlow102NB				eFlow104NB				9.3A + 9.6A	16	–	2.5	10A/250V
				✓	–	✓	–	–	✓	–	✓					
Maximal77F	9A	6.3A/250V	15A/32V	eFlow104NB				eFlow104NB				9.6A + 9.6A	16	–	2.5	10A/250V
				–	✓	–	✓	–	✓	–	✓					

**Lifetime Warranty**



# Maximal F Series

Dual Power Supply Access Power Controllers (Fused)



## 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
Maximal11F	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33F	32.6 lb. (14.8 kg)	39.6 lb. (18 kg)
Maximal55F	32.5 lb. (14.75 kg)	39.5 lb. (17.9 kg)
Maximal75F	32.6 lb. (14.8 kg)	39.6 lb. (18 kg)
Maximal77F	32.8 lb. (14.9 kg)	39.8 lb. (18.1 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.)

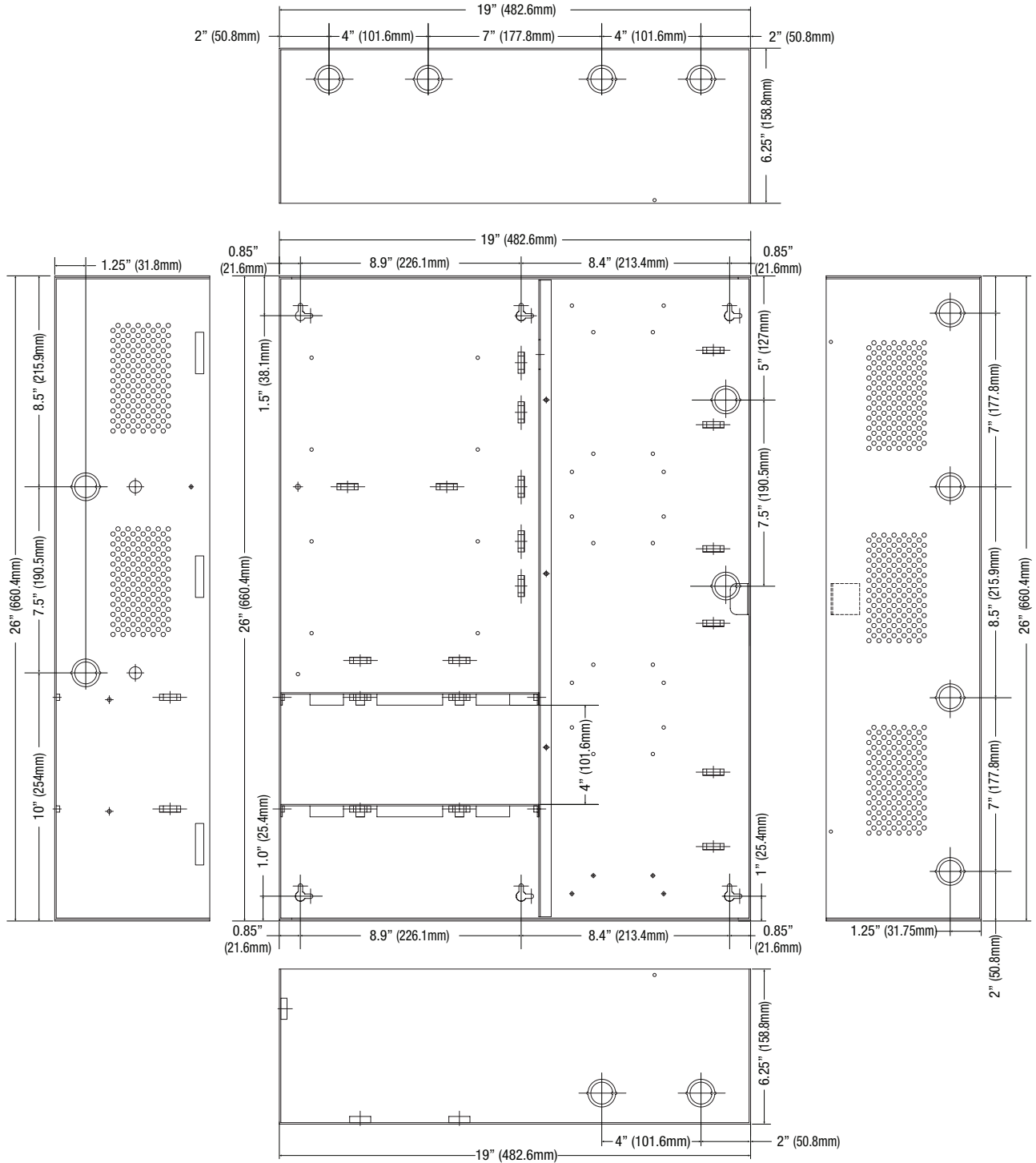
Model	12VDC	24VDC	12 and 24VDC
Maximal11F	41	88	65
Maximal33F	65	138	101
Maximal55F	114	N/A	N/A
Maximal75F	N/A	N/A	177
Maximal77F	N/A	236	N/A

## 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)



### Lifetime Warranty

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