

## MaximalF Series

### Dual Power Supply Access Power Controllers (Fused)



MaximalF 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.



Maximal55F

### 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

### MaximalF Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	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	120VAC 60Hz Input Current	Current per ACM8 Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	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	eFlow4NB				eFlow4NB				-	16	✓	7A	2.5	5A/250V	7.5A/32V	10A/250V
	✓	-	✓	-	✓	-	✓	-	3.3A + 3.3A							
	✓	-	✓	-	-	✓	-	✓	3.3A + 3.6A							
	-	✓	-	✓	-	✓	-	✓	3.6A + 3.6A							
Maximal33F	eFlow6NB				eFlow6NB				-	16	-	7A	2.5	5A/250V	10A/32V	10A/250V
	✓	-	✓	-	✓	-	✓	-	5.3A + 5.3A							
	✓	-	✓	-	-	✓	-	✓	5.3A + 5.6A							
	-	✓	-	✓	-	✓	-	✓	5.6A + 5.6A							
Maximal55F	eFlow102NB				eFlow102NB				9.3A + 9.3A	16	-	7A	2.5	5A/250V	15A/32V	10A/250V
	✓	-	✓	-	✓	-	✓	-								
Maximal75F	eFlow102NB				eFlow104NB				9.3A + 9.6A	16	-	8A	2.5	5A/250V 6.3A/250V	15A/32V	10A/250V
	✓	-	✓	-	-	✓	-	✓								
Maximal77F	eFlow104NB				eFlow104NB				9.6A + 9.6A	16	-	9A	2.5	6.3A/250V	15A/32V	10A/250V
	-	✓	-	✓	-	✓	-	✓								

#### Lifetime Warranty

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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
Protection	Fused 3.5A
Auxiliary	2.5A (unswitched)
Other	Oversvoltage 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	Varies, see Reference Chart
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

#### 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)

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

##### 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

### 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