

# MaximalF Series

## Single P/S Access Power Controllers (fused)

### Description

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.



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

### MaximalF Single Power Supply Series Configuration Reference Chart

Altronix Model Number	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	120VAC 60Hz Input Current Draw (A)	Current Per ACM8 Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	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	10.0-13.2	20.19-26.4	10.03-13.2	20.19-26.4	12VDC @ 4.6A or 24VDC @ 5.2A	16	3.5	2.5	5A/250V	10A/32V	10A/250V	2.5A/250V
Maximal5F	10.03-13.2	—	10.03-13.2	—	8.6A		3.5	2.5	5A/250V	15A/32V	10A/250V	2.5A/250V
Maximal7F	—	20.17-26.4	—	20.28-26.4	9.2A		4.5	2.5	6.3A/250V	15A/32V	10A/250V	2.5A/250V

**Specifications**

**Input**

Voltage 120VAC, 60Hz.  
 Fusing 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 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 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.  
 Battery Discharged or not connected.  
 Relays Individual LEDs indicate outputs are  
 triggered (relays energized).  
 FACP Indicates FACP disconnect is triggered.

**Agency Listings**

Access Control UL294  
 ULC-S319-05  
 Signal Equipment CSA Standard C22.2  
 No.205-M1983  
 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
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 lbs. (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

**Accessories**

**Network Supervision**

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

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Email and SNMP trap message notifications

