

## MaximalFV Series

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

#### Description

MaximalFV Access Power/Controllers distribute and switch power to access control systems and accessories. They convert a 220VAC 50/60Hz 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 @ 2.5A.
- 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.
- CE Approved.
- Lifetime Warranty / Made in the U.S.A.

### MaximalFV 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	220VAC 50/60Hz Input Current	Current per ACM8 Output	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								
Maximal11FV	eFlow4NBV				eFlow4NBV				—	16	4.2A	2.5A	5A/250V	7.5A/32V	10A/250V
	✓	—	✓	—	✓	—	✓	—	3.3A + 3.3A						
	✓	—	✓	—	—	✓	—	✓	3.3A + 3.6A						
Maximal33FV	eFlow6NBV				eFlow6NBV				—	16	4.2A	2.5A	5A/250V	10A/32V	10A/250V
	✓	—	✓	—	✓	—	✓	—	5.3A + 5.3A						
	✓	—	✓	—	—	✓	—	✓	5.3A + 5.6A						
Maximal55FV	eFlow102NBV				eFlow102NBV				9.3A + 9.3A	16	4.2A	2.5A	5A/250V	15A/32V	10A/250V
	✓	—	✓	—	✓	—	✓	—							
Maximal75FV	eFlow102NBV				eFlow104NBV				9.3A + 9.6A	16	4.8A	2.5A	5A/250V 6.3A/250V	15A/32V	10A/250V
	✓	—	✓	—	—	✓	—	✓							
Maximal77FV	eFlow104NBV				eFlow104NBV				9.6A + 9.6A	16	5.4A	2.5A	6.3A/250V	15A/32V	10A/250V
	—	✓	—	✓	—	✓	—	✓							

**MaximalFV Series**  
**Dual P/S Access Power Controllers (fused)**



**Specifications**

**Input**

Voltage 220VAC (working range 198VAC - 256VAC), 50/60Hz.  
Fusing Varies, see Reference Chart.

**Outputs**

Voltage 12VDC or 24VDC, see Reference Chart.  
Current Varies, see Reference Chart.  
Protection Fused 2.5A.  
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 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 220VAC 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**

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
Maximal11FV	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal33FV	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal55FV	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal75FV	43.7 lbs. (19.82 kg)	47.7 lbs. (21.64 kg)
Maximal77FV	43.3 lbs. (19.64 kg)	47.3 lbs. (21.45 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
Maximal11FV	41	88	65
Maximal33FV	65	138	101
Maximal55FV	114	N/A	N/A
Maximal75FV	N/A	N/A	177
Maximal77FV	N/A	236	N/A

**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

