

## Maximal FDV Series

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

Altronix Maximal FDV Series 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 PTC protected outputs. Outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. 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 Fail-Safe and/or Fail-Secure power outputs
- Sixteen (16) auxiliary power outputs (unswitched)
- Output PTCs 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 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



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MaximalFD Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	220VAC 50/60Hz 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)	PTC Protected Power-Limited Outputs (auto-resettable)	Current per ACM8CB Output (A)	ACM8CB 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				
Maximal11FDV	4.2A	5A/ 250V	7.5A/ 32V	eFlow4NBV				eFlow4NBV				-	16	2.5	10A/ 250V
				✓	-	✓	-	✓	-	✓	-	3.3A + 3.3A			
				✓	-	✓	-	-	✓	-	✓	3.3A + 3.6A			
				-	✓	-	✓	-	✓	-	✓	3.6A + 3.6A			
Maximal33FDV	4.2A	5A/ 250V	10A/ 32V	eFlow6NBV				eFlow6NBV				-	16	2.5	10A/ 250V
				✓	-	✓	-	✓	-	✓	-	5.3A + 5.3A			
				✓	-	✓	-	-	✓	-	✓	5.3A + 5.6A			
				-	✓	-	✓	-	✓	-	✓	5.6A + 5.6A			
Maximal55FDV	4.2A	5A/ 250V	15A/ 32V	eFlow102NBV				eFlow102NBV				9.3A + 9.3A	16	2.5	10A/ 250V
				✓	-	✓	-	✓	-	✓	-				
Maximal75FDV	4.8A	5A/250V 6.3A/250V	15A/ 32V	eFlow102NBV				eFlow104NBV				9.3A + 9.6A	16	2.5	10A/ 250V
				✓	-	✓	-	-	✓	-	✓				
Maximal77FDV	5.4A	6.3A/250V	15A/ 32V	eFlow104NBV				eFlow104NBV				9.6A + 9.6A	16	2.5	10A/ 250V
				-	✓	-	✓	-	✓	-	✓				

**Lifetime Warranty**

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## Specifications

### Input

Voltage 220VAC (working range 198VAC - 256VAC), 50/60Hz

Input Fuse Varies, see Reference Chart

### Outputs

Voltage 12VDC or 24VDC, see Reference Chart

Current Varies, see Reference Chart

Output PTCs 2.5A

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 220VAC is present

DC Output Powered

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)

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
Maximal11FDV	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33FDV	32.6 lb. (14.8 kg)	39.6 lb. (18 kg)
Maximal55FDV	32.5 lb. (14.75 kg)	39.5 lb. (17.9 kg)
Maximal75FDV	32.6 lb. (14.8 kg)	39.6 lb. (18 kg)
Maximal77FDV	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
Maximal11FDV	41	88	65
Maximal33FDV	65	138	101
Maximal55FDV	114	N/A	N/A
Maximal75FDV	N/A	N/A	177
Maximal77FDV	N/A	236	N/A

### Lifetime Warranty

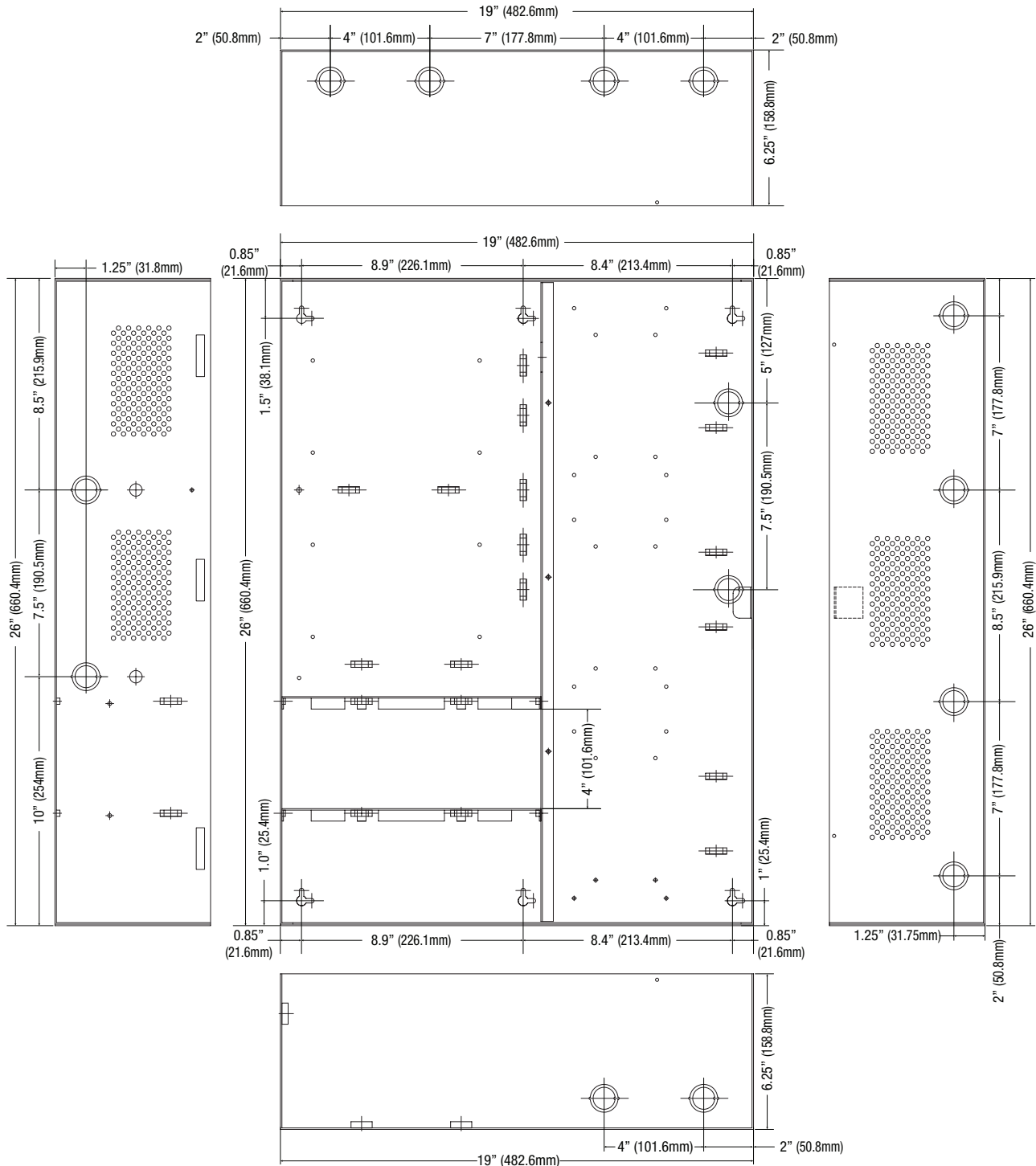
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**Dimensions and Drawing**

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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