

Maximal FDV Series

Single 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. 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.



Maximal7FDV

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

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 FDV Single Power Supply Series Configuration Reference Chart

Altronix Model Number	220VAC 50/60Hz Input Current Draw (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8CB Access Power Controller's outputs (A)	PTC Protected Power-Limited Outputs (auto-resettable)	Current Per ACM8CB Output (A)	ACM8CB Board Input Fuse Rating	ACM8CB Board Output PTC Rating
				[DC]		[Aux]						
				12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)					
Maximal3FDV	2.1	5A/250V	10A/32V	10.0-13.2	20.19-26.4	10.03-13.2	20.19-26.4	12VDC @ 4.6A or 24VDC @ 5.2A	16	2.5	10A/250V	2.5A
Maximal5FDV	2.1	5A/250V	15A/32V	10.03-13.2	–	10.03-13.2	–	8.6A		2.5	10A/250V	2.5A
Maximal7FDV	2.7	6.3A/250V	15A/32V	–	20.17-26.4	–	20.28-26.4	9.2A		2.5	10A/250V	2.5A

Lifetime Warranty

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Single Power Supply Access Power Controllers (PTC)



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 PTC 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
Maximal3FDV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal5FDV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal7FDV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 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
Maximal3FDV	28	64
Maximal5FDV	53	N/A
Maximal7FDV	N/A	113

Lifetime Warranty

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