

MaximalFDV Series

Dual Power Supply Access Power Controllers (PTC)



MaximalFDV 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.



Maximal33FDV

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

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

Lifetime Warranty

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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

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
Relays	Individual LEDs indicate outputs are triggered (relays energized)
FACP	Indicates FACP disconnect is triggered

Agency Listings

CE	European Conformity
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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
Maximal11FDV	43 lb. (19.5 kg)	47 lb. (21.32 kg)
Maximal33FDV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal55FDV	43 lb. (19.5 kg)	47 lb. (21.32 kg)
Maximal75FDV	43.7 lb. (19.82 kg)	47.7 lb. (21.64 kg)
Maximal77FDV	43.3 lb. (19.64 kg)	47.3 lb. (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
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

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