Altronix®

Rev. 03222023

Maximal FV Series

Single Power Supply Access Power Controllers (Fused)

MAXIMAL®

Altronix Maximal FV 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 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.

Maximal5FV

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/250V
- 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

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Maximal FV 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 ACM8 Access Power Controller's outputs (A)	Fuse Protected Non Power-Limited Outputs	Current Per ACM8 Output (A)	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)					
Maximal3FV	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	3.5A/ 250V
Maximal5FV	2.1	5A/ 250V	15A/ 32V	10.03-13.2	–	10.03-13.2	–	8.6A		2.5	10A/ 250V	3.5A/ 250V
Maximal7FV	2.7	6.3A/ 250V	15A/ 32V	–	20.17-26.4	–	20.28-26.4	9.2A		2.5	10A/ 250V	3.5A/ 250V

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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 Fuses	3.5A/250V
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
Maximal3FV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal5FV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal7FV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)

Temperature

Operating:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	20 to 85%, non-condensing

BTU/Hr (approx.)

Model	12VDC	24VDC
Maximal3FV	28	64
Maximal5FV	53	N/A
Maximal7FV	N/A	113

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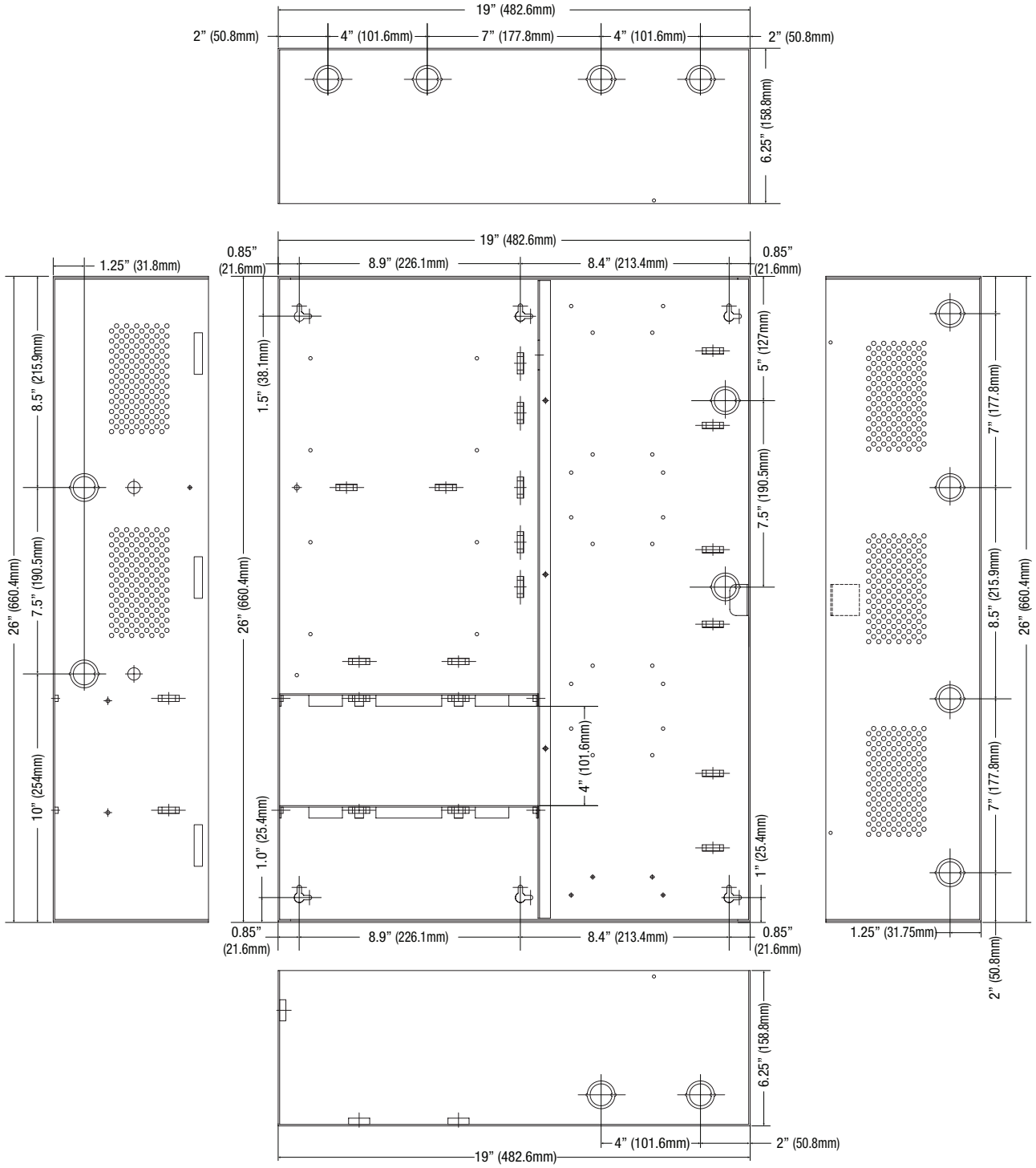
Dimensions and Drawing

Dimensions (H x W x D approximate)

26” x 19” x 6.25” (660.4mm x 482.6mm x 158.8mm)