Altronix®

Rev. 03222023

Maximal V Series

Dual Power Supply Access Power Controllers (Fused)

MAXIMAL®

Altronix Maximal V Series Access Power Controllers distribute and switch power to access control systems and accessories. They convert a 220VAC (working range 198VAC - 256VAC), 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.

Maximal75V

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
- Filtered and electronically regulated outputs
- Supervision:
  - AC Fail
  - Battery Fail and Battery Presence
- 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

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Maximal V 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	Output Voltage Options		Total Output Current (16 outputs)	Power-Limited Outputs	Fuse Protected Outputs	Current per ACM8 output
				Power Supply 1	Power Supply 2				
Maximal11V	3A	5A/250V	15A/32V	**AL400XB2V**	**AL400XB2V**		✓	16	2.5A
				12VDC @ 3.5A	12VDC @ 3.5A	7A			
				12VDC @ 2.7A	24VDC @ 2.7A	5.4A			
				24VDC @ 3.5A	24VDC @ 2.7A	6.2A			
Maximal33V	3A		–	**AL600XB220**	**AL600XB220**		–		
				12VDC @ 5.5A	12VDC @ 5.5A	11A			
				12VDC @ 5.7A	24VDC @ 5.7A	11.4A			
				24VDC @ 5.5A	24VDC @ 5.7A	11.2A			
Maximal55V	2.6A		15A/32V	**AL1012XB220**	**AL1012XB220**	19			
				12VDC @ 9.5A	12VDC @ 9.5A				
Maximal75V	3.8A			**AL1012XB220**	**AL1024XB2V**	19.2			
				12VDC @ 9.5A	24VDC @ 9.5A				
Maximal77V	5A			**AL1024XB2V**	**AL1024XB2V**	19.4			
				24VDC @ 9.7A	24VDC @ 9.7A				

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Specifications

Input

Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz
Input Fuse	5A/250V

Outputs

Voltage	12VDC or 24VDC, see Reference Chart
Current	Varies, depending on the model
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

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)

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
Maximal11V	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33V	31.6 lb. (14.3 kg)	38.6 lb. (17.5 kg)
Maximal55V	32.6 lb. (14.8 kg)	39.6 lb. (18.0 kg)
Maximal75V	33.0 lb. (15.0 kg)	40.0 lb. (18.1 kg)
Maximal77V	33.4 lb. (15.2 kg)	40.4 lb. (18.3 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	12VDC and 24VDC
Maximal11V	43	66	55
Maximal33V	68	140	104
Maximal55V	117	N/A	N/A
Maximal75V	N/A	N/A	177
Maximal77V	N/A	238	N/A

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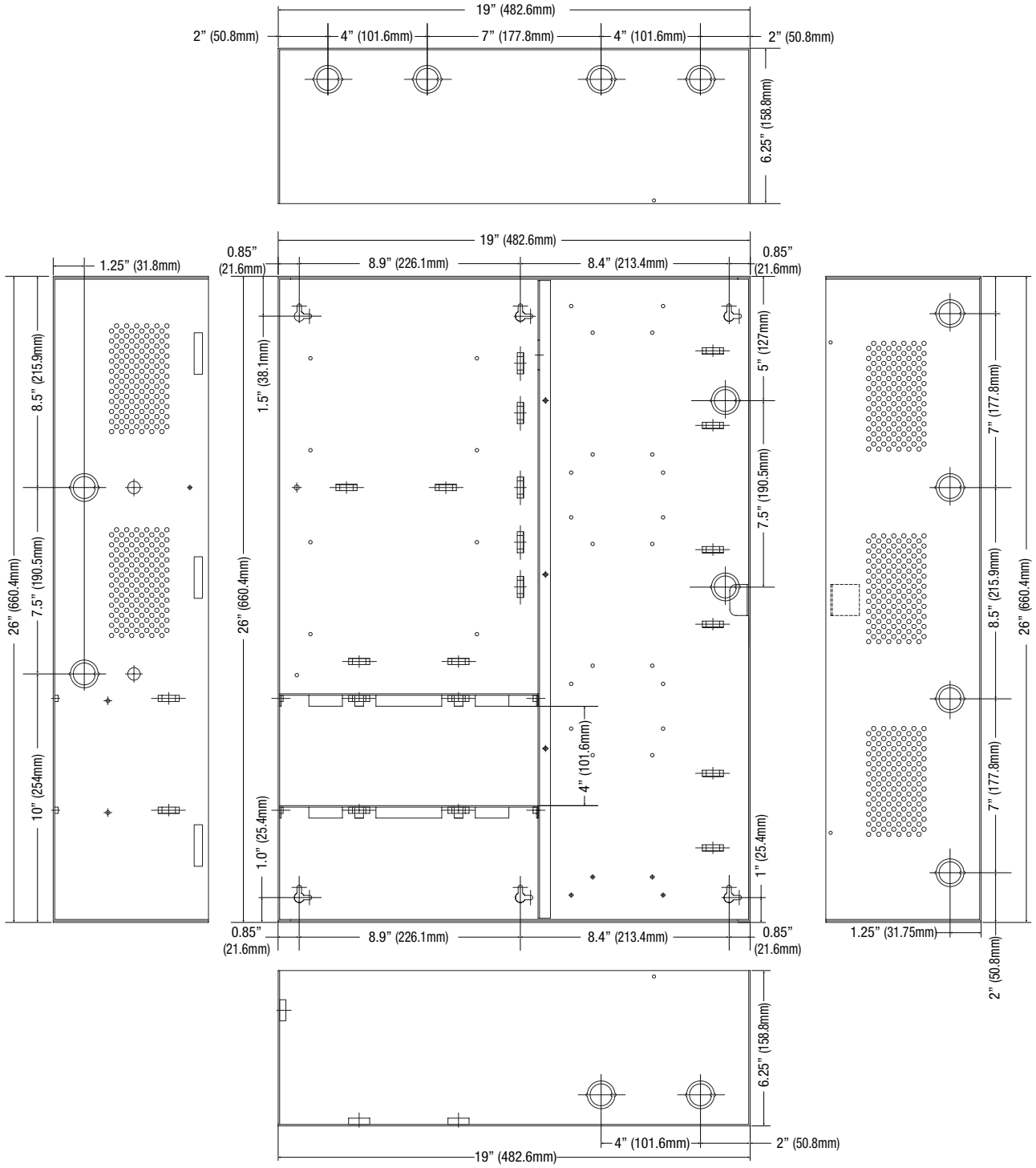
Dimensions and Drawing

Dimensions (H x W x D approximate)

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