Altronix®

Rev. 03222023

Maximal D Series

Dual Power Supply Access Power Controllers (PTC)

MAXIMAL®

Altronix Maximal D Series Access Power Controllers distribute and switch power to access control systems and accessories. They convert a 115VAC, 60Hz input into sixteen (16) independently controlled 12VDC or 24VDC Class 2 Rated PTC protected power-limited auto-resettable 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.

Maximal75D

Key Features

- Sixteen (16) independently controlled Fail-Safe and/or Fail-Secure Class 2 Rated PTC protected power-limited 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
- 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
- UL Listed in the U.S. and Canada
- Lifetime Warranty

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Maximal Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	115VAC 60Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Output Voltage Options		Total Output Current (16 outputs)	Class 2 Rated PTC Protected Power-Limited Outputs (auto-resettable)	Current per ACM8CB output
				Power Supply 1	Power Supply 2			
Maximal11D	7A	5A/250V	15A/32V	**AL400ULXB2**	**AL400ULXB2**		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		
Maximal33D	7A		–	**AL600ULXB**	**AL600ULXB**			
				12VDC @ 5.5A	12VDC @ 5.5A	11A		
				12VDC @ 5.7A	24VDC @ 5.7A	11.4A		
				24VDC @ 5.5A	24VDC @ 5.7A	11.2A		
Maximal55D	5.2A		15A/32V	**AL1012ULXB**	**AL1012ULXB**	19		
				12VDC @ 9.5A	12VDC @ 9.5A			
Maximal75D	7A			**AL1012ULXB**	**AL1024ULXB2**	19.2		
				12VDC @ 9.5A	24VDC @ 9.5A			
Maximal77D	8.8A			**AL1024ULXB2**	**AL1024ULXB2**	19.4		
				24VDC @ 9.7A	24VDC @ 9.7A			

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Specifications

Input

Voltage	115VAC, 60Hz
Input Fuse	5A/250V

Outputs

Sixteen (16) Class 2 Rated PTC protected power-limited outputs (auto-resettable)

Voltage	12VDC or 24VDC, see Reference Chart
Current	Varies, See Reference Chart
Output PTCs	2.5A
Auxiliary	2A (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

Latching or non-latching, individually selectable for any or all of the sixteen (16) outputs

Supervision

AC Failure	Form "C" contacts
Battery	Form "C" contacts

Indicators (LED)

Input	115VAC 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

UL:

UL294	Access Control System Units

cUL:

C22.2 No.205-M1983	General Signaling Equipment
CSFM	California State Fire Marshall Approved

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
Maximal11D	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33D	31.6 lb. (14.3 kg)	38.6 lb. (17.5 kg)
Maximal55D	32.6 lb. (14.8 kg)	39.6 lb. (18.0 kg)
Maximal75D	33.0 lb. (15.0 kg)	40.0 lb. (18.1 kg)
Maximal77D	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
Maximal11D	43	66	55
Maximal33D	68	140	104
Maximal55D	117	N/A	N/A
Maximal75D	N/A	N/A	177
Maximal77D	N/A	238	N/A

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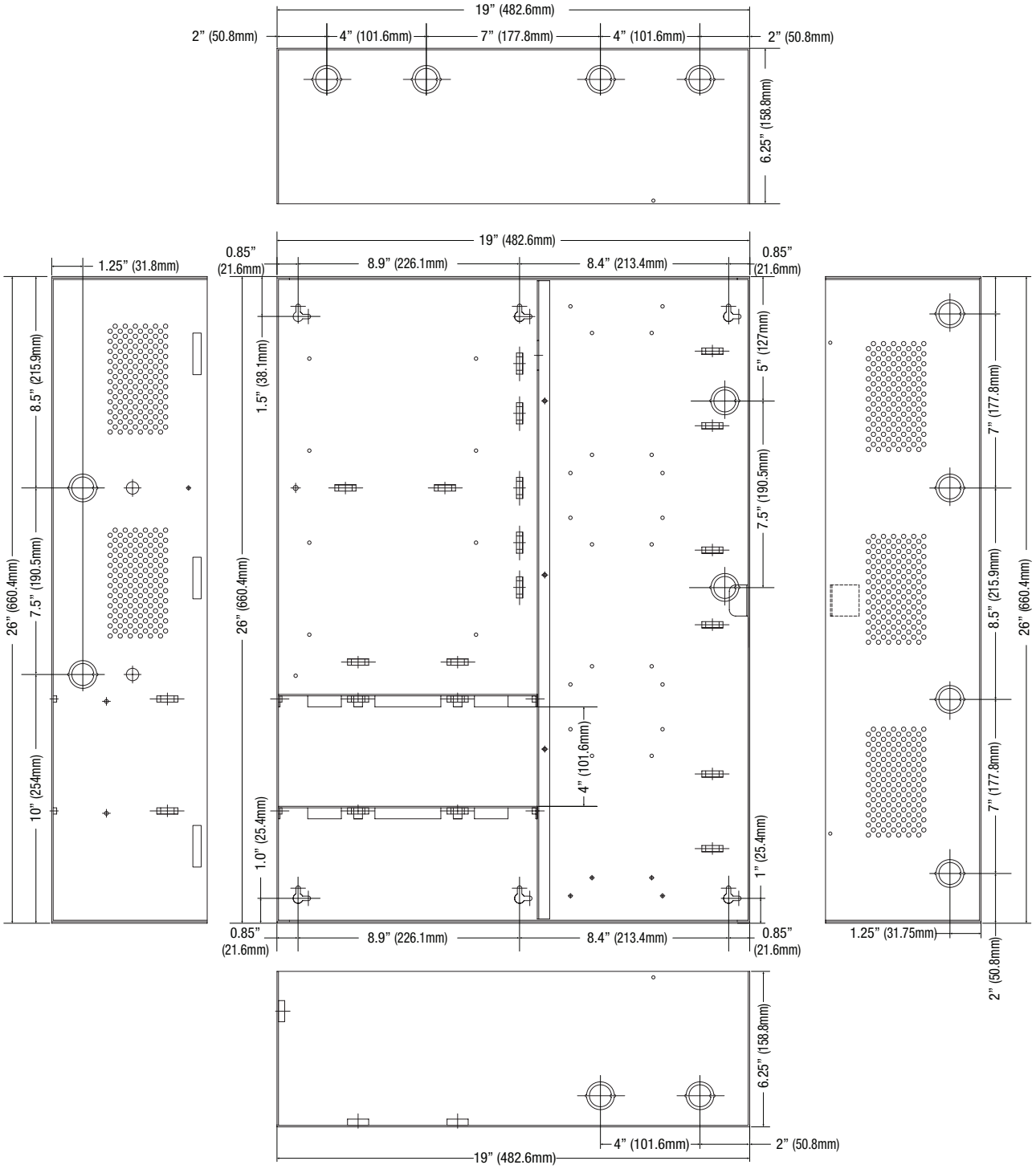
Dimensions and Drawing

Dimensions (H x W x D approximate)

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



Lifetime Warranty

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