

# Maximal DV Series

## Single Power Supply Access Power Controllers (PTC)



Altronix Maximal DV 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 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.



Maximal7DV

### Key Features

- Sixteen (16) independently controlled (16) 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
- 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

### Maximal DV Single 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 | Power Supply Board Output Voltage Options | PTC Protected Power-Limited Outputs (auto-resettable) | Maximum Current Per ACM8CB Output |
|-----------------------|------------------------------|--------------------------------------|--|---|---|-----------------------------------|
| Maximal3DV            | 1.5A                         | 5A/250V                              | -                                      | 12VDC @ 5A or 24VDC @ 5.4A                | 16  | 2.5A                              |
| Maximal5DV            | 2.2A                         |                                      | 15A/32V                                | 12VDC @ 9A                                |   |                                   |
| Maximal7DV            | 3.0A                         |                                      | 15A/32V                                | 24VDC @ 9.4A                              |   |                                   |

#### Lifetime Warranty

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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, see Reference Chart  
Output PTCs 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

### 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     |
|------------|---------------------|---------------------|
| Maximal3DV | 30.8 lb. (14.0 kg)  | 37.8 lb. (17.2 kg)  |
| Maximal5DV | 31.8 lb. (14.4 kg)  | 38.85 lb. (17.6 kg) |
| Maximal7DV | 32.25 lb. (14.6 kg) | 39.25 lb. (17.8 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.)

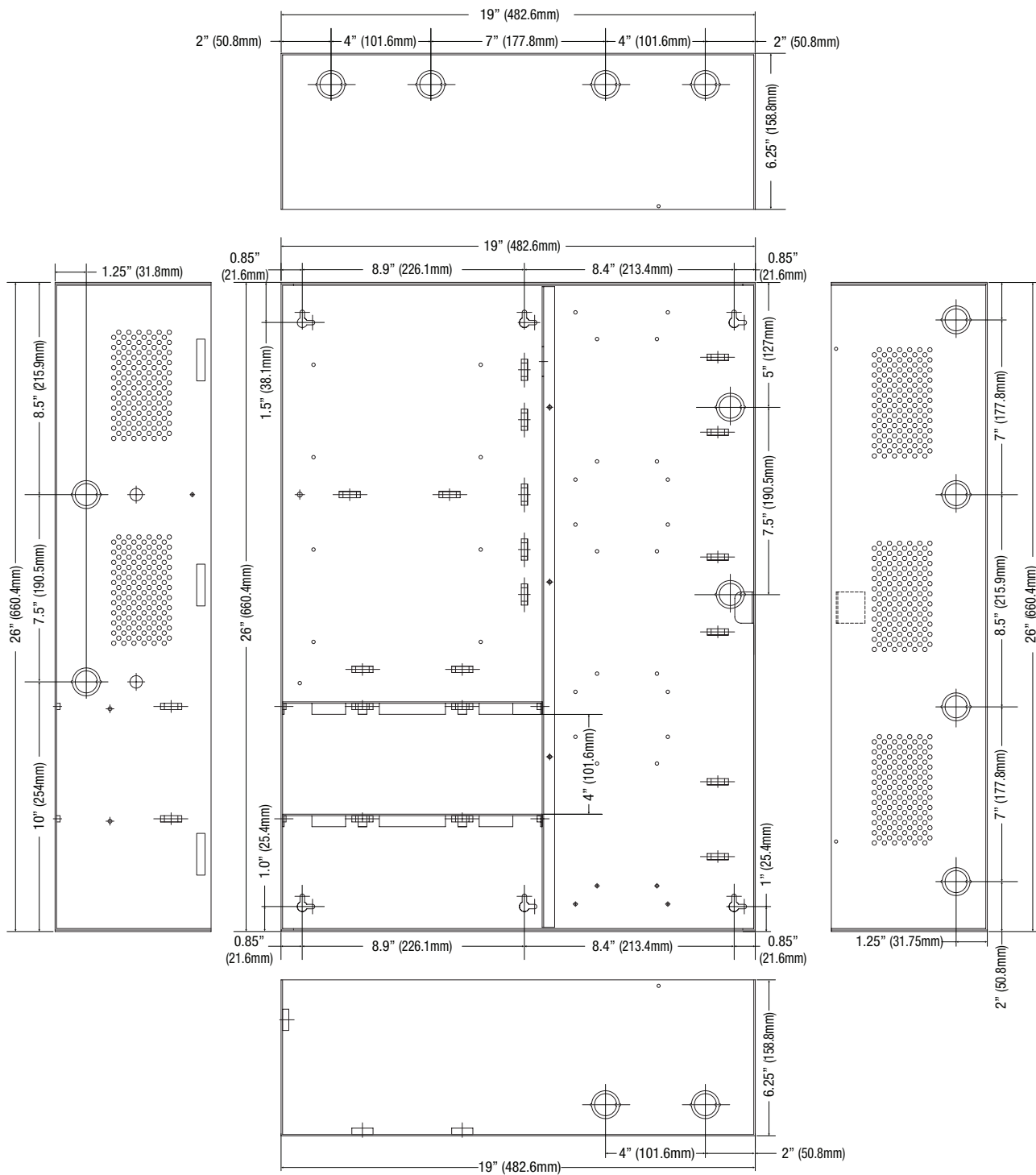
| Model      | 12VDC | 24VDC |
|------------|-------|-------|
| Maximal3DV | 31    | 67    |
| Maximal5DV | 55    | N/A   |
| Maximal7DV | N/A   | 115   |

## Lifetime Warranty

## 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