

Maximal DV Series

Single Power Supply Access Power Controllers (PTC)



Maximal 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	6.3A/250V	15A/32V	24VDC @ 9.4A		

Lifetime Warranty

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)
40AH/65AH (requires separate enclosure)

Type Sealed lead acid or gel type

Fuse Rating 15A @ 32VDC
Maximal3DV does not have a battery fuse

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

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