

MaximalDV Series Dual P/S Access Power Controllers (PTC)

Description

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 power-limited 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.



Key Features

- Sixteen (16) independently controlled 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.
- Lifetime Warranty / Made in the U.S.A.

MaximalDV Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Total Output Current (16 outputs)	PTC Protected Auto-Resettable Outputs	220VAC 50/60Hz Input Current	Current per ACM8CB output	Power Supply Board Input Fuse Rating	Power Supply Board Output Fuse Rating
	Power Supply 1	Power Supply 2						
Maximal11DV	AL400XB2V	AL400XB2V		16	7A	2.5A	5A/250V	15A/32V
	12VDC @ 3.5A	12VDC @ 3.5A	7A					
	12VDC @ 2.7A	24VDC @ 2.7A	5.4A					
	24VDC @ 3.5A	24VDC @ 2.7A	6.2A					
Maximal33DV	AL600XB220	AL600XB220			7A	2.5A	5A/250V	—
	12VDC @ 5.5A	12VDC @ 5.5A	11A					
	12VDC @ 5.7A	24VDC @ 5.7A	11.4A					
	24VDC @ 5.5A	24VDC @ 5.7A	11.2A					
Maximal55DV	AL1012XB220	AL1012XB220	19		5.2A	2.5A	5A/250V 6.3A/250V	15A/32V
	12VDC @ 9.5A	12VDC @ 9.5A						
Maximal75DV	AL1012XB220	AL1024XB2V	19.2		7A	2.5A		
	12VDC @ 9.5A	24VDC @ 9.5A						
Maximal77DV	AL1024XB2V	AL1024XB2V	19.4		8.8A	2.5A		
	24VDC @ 9.7A	24VDC @ 9.7A						

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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). 40 AH / 65 AH (requires separate enclosure).
Type	Sealed lead acid or gel type.
Fuse Rating	15A @ 32VDC Maximal33DV 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.

Physical and Environmental

Dimensions (H x W x D)

26" x 19" x 6.25" (660.4mm x 482.6mm x 158.75mm).

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal11DV	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal33DV	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal55DV	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal75DV	43.7 lbs. (19.82 kg)	47.7 lbs. (21.64 kg)
Maximal77DV	43.3 lbs. (19.64 kg)	47.3 lbs. (21.45 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	12 and 24VDC
Maximal11DV	43	66	55
Maximal33DV	68	140	104
Maximal55DV	117	N/A	N/A
Maximal75DV	N/A	N/A	177
Maximal77DV	N/A	238	N/A