

Maximal EV Series
Expandable Power Systems

Description

Maximal Expandable Power System provide system designers and installers with maximum power choices and the highest levels of versatility. They provide 12VDC, 24VDC, or 12VDC and 24VDC simultaneously via two (2) single output power supply/chargers. Includes AC fail, low battery and battery presence monitoring. Custom enclosure facilitates up to four (4) 12VDC/12AH batteries.



Maximal35EV

Key Features

- Filtered and electronically regulated outputs.
- Thermal and short circuit protection with auto reset.
- Supervision
 - AC Fail
 - Low Battery and Battery Presence.
- Built-in charger for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- AC input and DC output LED indicators.
- Enclosure accommodates up to four (4) 12VDC/12AH batteries.
- Lifetime Warranty / Made in the U.S.A.

Maximal EV Series Power Supply Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Non Power-Limited Outputs	Power-Limited Outputs	220VAC 60 Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
	Power Supply 1	Power Supply 2					
Maximal11EV	AL400XB2V	AL400XB2V	-	2	2.25A	5A/250V	15A/32V
	12VDC @ 4A	12VDC @ 4A					
	12VDC @ 4A	24VDC @ 3A					
	24VDC @ 3A	24VDC @ 3A					
Maximal13EV	AL600XB220	AL400XB2V	1	1	2.5A	5A/250V	15A/32V (AL400ULXB2)
	12VDC @ 6A	12VDC @ 4A					
	24VDC @ 6A	12VDC @ 4A					
	12VDC @ 6A	24VDC @ 3A					
Maximal33EV	AL600XB220	AL600XB220	2	-	3.5A	5A/250V	-
	12VDC @ 6A	12VDC @ 6A					
	12VDC @ 6A	24VDC @ 6A					
	24VDC @ 6A	24VDC @ 6A					
Maximal35EV	AL1012XB220	AL600XB220	2	-	3A	5A/250V	15A/32V (AL1012ULXB)
	12VDC @ 10A	12VDC @ 6A					
	12VDC @ 10A	24VDC @ 6A					
Maximal37EV	AL1024XB2V	AL600XB220	2	-	5A	5A/250V (AL600XB220) 6.3A/250V (AL1024XB2V)	15A/32V (AL1024ULXB2)
	24VDC @ 10A	12VDC @ 6A					
	24VDC @ 10A	24VDC @ 6A					
Maximal55EV	AL1012XB220	AL1012XB220	2	-	3A	5A/250V	15A/32V
	12VDC @ 10A	12VDC @ 10A					
Maximal75EV	AL1024XB2V	AL1012XB220	2	-	5A	5A/250V (AL1012XB220) 6.3A/250V (AL1024XB2V)	15A/32V
	24VDC @ 10A	12VDC @ 10A					
Maximal77EV	AL1024XB2V	AL1024XB2V	2	-	6.25A	6.3A/250V	15A/32V
	24VDC @ 10A	24VDC @ 10A					

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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.
Other Overvoltage protection. Filtered and regulated.

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
AL600XB220 does not have a battery fuse.
Failover Upon AC loss, instantaneous.

Supervision

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

Indicators (LED)

Input 220VAC is present.
DC Output Powered.
Battery Discharged or not connected.

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
Maximal11EV	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal13EV	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal33EV	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal35EV	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal37EV	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal55EV	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal75EV	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal77EV	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 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
Maximal11EV	43	66	55
Maximal13EV	45	82	45 or 82*
Maximal33EV	74	147	111
Maximal35EV	98	N/A	130
Maximal37EV	N/A	197	160
Maximal55EV	123	N/A	N/A
Maximal75EV	N/A	N/A	184
Maximal77EV	N/A	246	N/A

*Depending on Power Supplies' settings