

Maximal EV Series

Expandable Power Systems

Altronix Maximal Expandable Power Systems 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.



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
- CE European Conformity
- Lifetime Warranty

Lifetime Warranty

Maximal EV Series Power Supply Configuration Reference Chart

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

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

Other Overvoltage protection
Filtered and regulated

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

Supervision

AC Failure Form "C" contacts

Battery Form "C" contacts

Indicators (LED)

Input 220VAC is present

DC Output Powered

Battery Discharged or not connected

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
Maximal11EV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal13EV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal33EV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal35EV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal37EV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal55EV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal75EV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal77EV	42.3 lb. (19.17 kg)	46.3 lb. (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

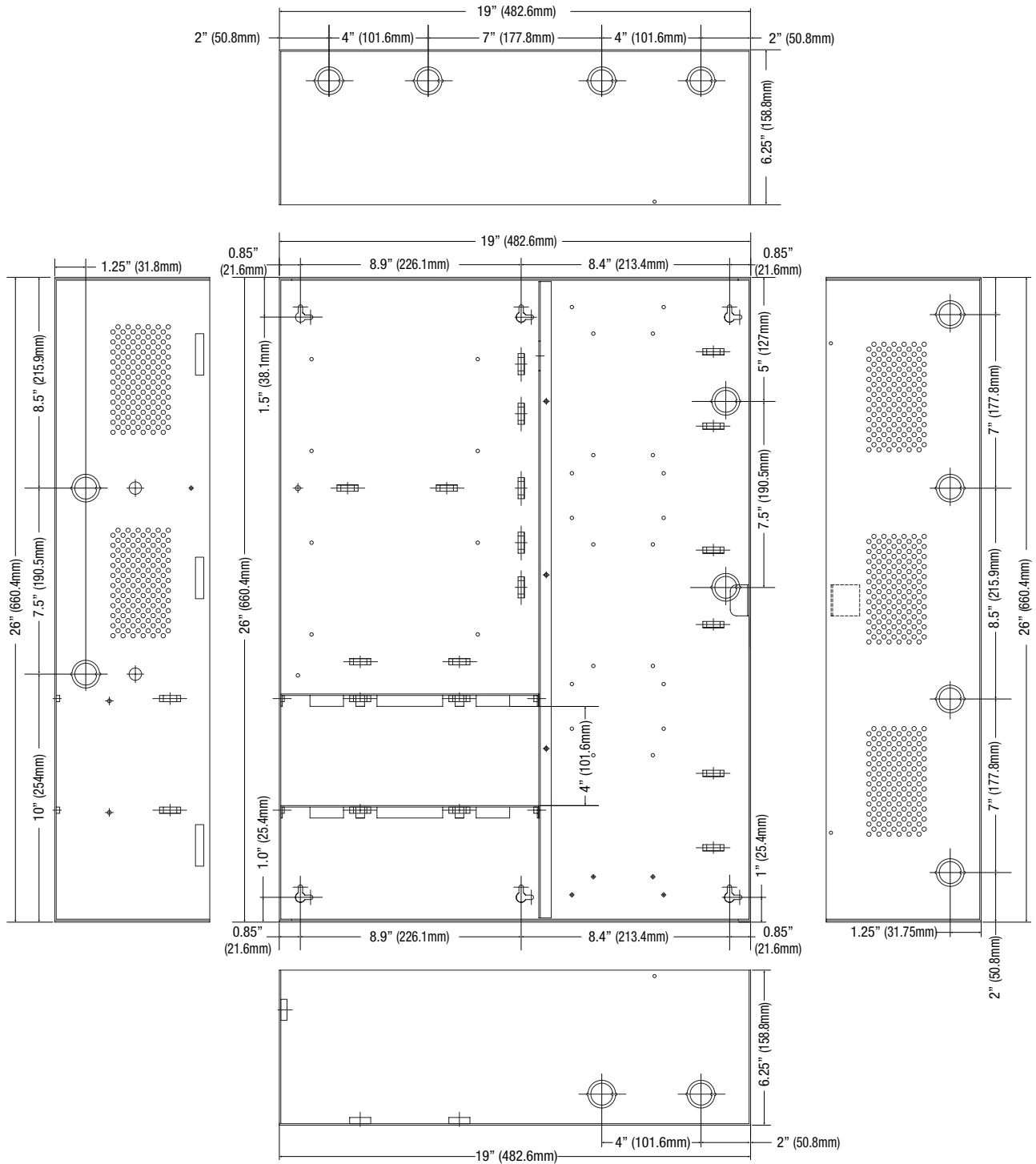
*Depending on Power Supplies' settings

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)



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