Altronix®

Rev. 08082022

Maximal EV Series

Expandable Power Systems

MAXIMAL®

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.

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
- CE European Conformity
- Lifetime Warranty

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA

phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

Maximal EV Series

Expandable Power Systems

MAXIMAL®

Maximal EV Series Power Supply Configuration Reference Chart

Altronix Model Number	220VAC 50/60Hz 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		

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA

phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

Maximal EV Series

Expandable Power Systems

MAXIMAL®

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:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)

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

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

Maximal EV Series

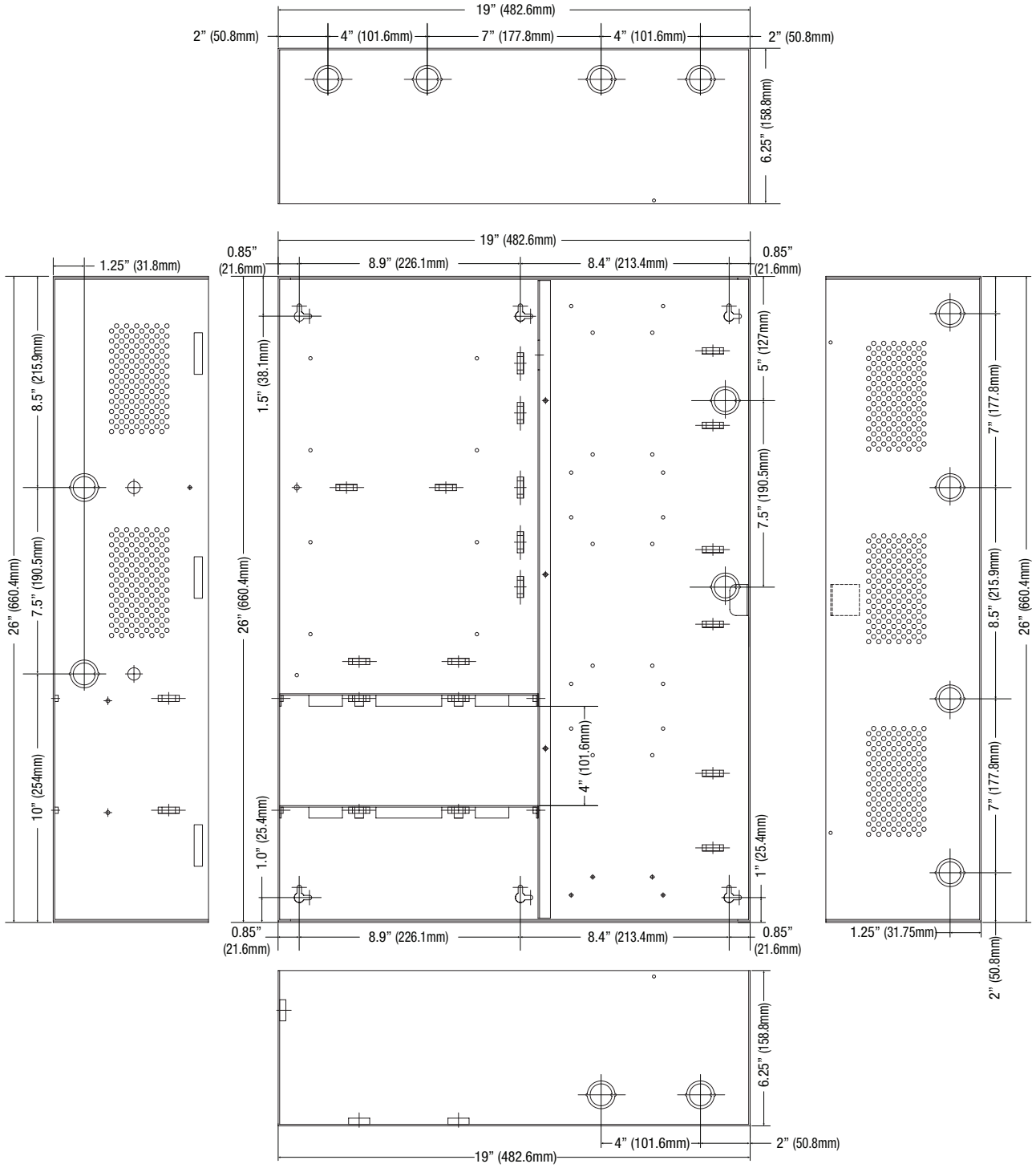
Expandable Power Systems

MAXIMAL®

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

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA

phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com