

## Maximal FEV Series

Expandable Power Systems



Maximal Expandable Power Systems provide system designers and installers with optimum 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. Enclosure accommodates up to four (4) 12VDC/12AH batteries.



Maximal37FEV

### Key Features

- Filtered and electronically regulated outputs.
- Thermal and short circuit protection with auto reset.
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown.
- 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

### Maximal FEV Series Power Supply Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Non Power-Limited Outputs	Power-Limited Outputs	220VAC 50/60 Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
	Power Supply 1	Power Supply 2					
Maximal11FEV	eFlow4NBV	eFlow4NBV	-	2	4.2A	5A/250V	7.5A/32V
	12VDC @ 4A	12VDC @ 4A					
	12VDC @ 4A	24VDC @ 3A					
	24VDC @ 3A	24VDC @ 3A					
Maximal13FEV	eFlow6NBV	eFlow4NBV	1	1	4.2A	5A/250V	7.5A/32V
	12VDC @ 6A	12VDC @ 4A					
	24VDC @ 6A	12VDC @ 4A					
	12VDC @ 6A	24VDC @ 3A					
Maximal33FEV	eFlow6NBV	eFlow6NBV	2	-	4.2A	5A/250V	10A/32V
	12VDC @ 6A	12VDC @ 6A					
	12VDC @ 6A	24VDC @ 6A					
	24VDC @ 6A	24VDC @ 6A					
Maximal35FEV	eFlow102NBV	eFlow6NBV	2	-	4.2A	5A/250V	10A/32V (eFlow6NBV) 15A/32V (eFlow102NBV)
	12VDC @ 10A	12VDC @ 6A					
	12VDC @ 10A	24VDC @ 6A					
Maximal37FEV	eFlow104NBV	eFlow6NBV	2	-	4.8A	5A/250V (eFlow6NBV) 6.3A/250V (eFlow104NBV)	10A/32V (eFlow6NBV) 15A/32V (eFlow104NBV)
	24VDC @ 10A	12VDC @ 6A					
	24VDC @ 10A	24VDC @ 6A					
Maximal55FEV	eFlow102NBV	eFlow102NBV	2	-	4.2A	5A/250V	15A/32V
	12VDC @ 10A	12VDC @ 10A					
Maximal75FEV	eFlow104NBV	eFlow102NBV	2	-	4.8A	5A/250V (eFlow102NBV) 6.3A/250V (eFlow104NBV)	15A/32V
	24VDC @ 10A	12VDC @ 10A					
Maximal77FEV	eFlow104NBV	eFlow104NBV	2	-	5.6A	6.3A/250V	15A/32V
	24VDC @ 10A	24VDC @ 10A					

## 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 Varies, see Reference Chart

Failover Upon AC loss, instantaneous

### Supervision

AC Failure Form "C" contacts

Battery Form "C" contacts

### Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

### Indicators (LED)

Input 220VAC is present

DC Output Powered

### Agency Listings

CE European Conformity

## 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
Maximal11FEV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal13FEV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal33FEV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal35FEV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal37FEV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal55FEV	43.5 lb. (19.73 kg)	47.5 lb. (21.55 kg)
Maximal75FEV	42.3 lb. (19.17 kg)	46.3 lb. (21.00 kg)
Maximal77FEV	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
Maximal11FEV	48	74	98
Maximal13FEV	61	123	98 or 86*
Maximal33FEV	74	147	111
Maximal35FEV	98	N/A	130
Maximal37FEV	N/A	197	160
Maximal55FEV	123	N/A	N/A
Maximal75FEV	N/A	N/A	184
Maximal77FEV	N/A	246	N/A

\*Depending on Power Supplies' settings

## Accessories *(order separately)*



LINQ2

### LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



### Lifetime Warranty