

Maximal FE Series

Expandable Power Systems

Description

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.



Maximal37FE

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.
- UL Listed in the U.S. and Canada.
- CE Approved.
- Lifetime Warranty / Made in the U.S.A.

Maximal FE Series Power Supply Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Non Power-Limited Outputs	Class 2 Rated Power-Limited Outputs	120VAC 60 Hz Input Current	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
	Power Supply 1	Power Supply 2					
Maximal11FE	eFlow4NB	eFlow4NB	-	2	7.0A	5A/250V	7.5A/32V
	12VDC @ 4A	12VDC @ 4A					
	12VDC @ 4A	24VDC @ 3A					
	24VDC @ 3A	24VDC @ 3A					
Maximal13FE	eFlow6NB	eFlow4NB	1	1	7.0A	5A/250V	7.5A/32V
	12VDC @ 6A	12VDC @ 4A					
	24VDC @ 6A	12VDC @ 4A					
	12VDC @ 6A	24VDC @ 3A					
Maximal33FE	eFlow6NB	eFlow6NB	2	-	7.0A	5A/250V	10A/32V
	12VDC @ 6A	12VDC @ 6A					
	12VDC @ 6A	24VDC @ 6A					
	24VDC @ 6A	24VDC @ 6A					
Maximal35FE	eFlow102NB	eFlow6NB	2	-	7.0A	5A/250V	10A/32V (eFlow6NB) 15A/32V (eFlow102NB)
	12VDC @ 10A	12VDC @ 6A					
	12VDC @ 10A	24VDC @ 6A					
Maximal37FE	eFlow104NB	eFlow6NB	2	-	8.0A	5A/250V (eFlow6NB) 6.3A/250V (eFlow104NB)	10A/32V (eFlow6NB) 15A/32V (eFlow104NB)
	24VDC @ 10A	12VDC @ 6A					
	24VDC @ 10A	24VDC @ 6A					
Maximal55FE	eFlow102NB	eFlow102NB	2	-	7.0A	5A/250V	15A/32V
	12VDC @ 10A	12VDC @ 10A					
Maximal75FE	eFlow104NB	eFlow102NB	2	-	8.0A	5A/250V (eFlow102NB) 6.3A/250V (eFlow104NB)	15A/32V
	24VDC @ 10A	12VDC @ 10A					
Maximal77FE	eFlow104NB	eFlow104NB	2	-	9.08A	6.3A/250V	15A/32V
	24VDC @ 10A	24VDC @ 10A					

Specifications

Input

Voltage 120VAC, 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 120VAC is present.
 DC Output Powered.

Agency Listings

UL:
 UL294 Access Control System Units.
 cUL:
 ULC-S319-05 Electronic Access Control Systems
 Class I equipment.
 CSA C22.2 No.205 Signal Equipment.

Agency Listings (cont'd)

CSFM California State Fire Marshall Approved.
 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
Maximal11FE	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal13FE	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal33FE	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal35FE	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal37FE	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal55FE	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal75FE	42.3 lbs. (19.17 kg)	46.3 lbs. (21.00 kg)
Maximal77FE	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
Maximal11FE	48	74	98
Maximal13FE	61	123	98 or 86*
Maximal33FE	74	148	111
Maximal35FE	98	N/A	130
Maximal37FE	N/A	197	160
Maximal55FE	123	N/A	N/A
Maximal75FE	N/A	N/A	184
Maximal77FE	N/A	246	N/A

*Depending on Power Supplies' settings

Accessories

Network Supervision

Altronix model **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

