

### Maximal E 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.



Maximal35E

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

#### Maximal E Series Power Supply Configuration Reference Chart

| Altronix Model Number | Output Voltage Options |                | Non Power-Limited Outputs | Class 2 Rated Power-Limited Outputs | 115VAC 60 Hz Input Current | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating |
|-----------------------|------------------------|----------------|---------------------------|-------------------------------------|----------------------------|--------------------------------------|--|
|                       | Power Supply 1         | Power Supply 2 |                           |                                     |                            |                                      |  |
| Maximal11E            | AL400ULXB2             | AL400ULXB2     | —                         | 2                                   | 7.0A                       | 5A/250V                              | 15A/32V                                |
|                       | 12VDC @ 4A             | 12VDC @ 4A     |                           |                                     |                            |                                      |  |
|                       | 12VDC @ 4A             | 24VDC @ 3A     |                           |                                     |                            |                                      |  |
|                       | 24VDC @ 3A             | 24VDC @ 3A     |                           |                                     |                            |                                      |  |
| Maximal13E            | AL600ULXB              | AL400ULXB2     | 1                         | 1                                   | 7.0A                       | 5A/250V                              | 15A/32V (AL400ULXB2)                   |
|                       | 12VDC @ 6A             | 12VDC @ 4A     |                           |                                     |                            |                                      |  |
|                       | 24VDC @ 6A             | 12VDC @ 4A     |                           |                                     |                            |                                      |  |
|                       | 12VDC @ 6A             | 24VDC @ 3A     |                           |                                     |                            |                                      |  |
| Maximal33E            | AL600ULXB              | AL600ULXB      | 2                         | —                                   | 7.0A                       | 5A/250V                              | —                                      |
|                       | 12VDC @ 6A             | 12VDC @ 6A     |                           |                                     |                            |                                      |  |
|                       | 12VDC @ 6A             | 24VDC @ 6A     |                           |                                     |                            |                                      |  |
|                       | 24VDC @ 6A             | 24VDC @ 6A     |                           |                                     |                            |                                      |  |
| Maximal35E            | AL1012ULXB             | AL600ULXB      | 2                         | —                                   | 6.1A                       | 5A/250V                              | 15A/32V (AL1012ULXB)                   |
|                       | 12VDC @ 10A            | 12VDC @ 6A     |                           |                                     |                            |                                      |  |
|                       | 12VDC @ 10A            | 24VDC @ 6A     |                           |                                     |                            |                                      |  |
| Maximal37E            | AL1024ULXB2            | AL600ULXB      | 2                         | —                                   | 7.9A                       | 5A/250V                              | 15A/32V (AL1024ULXB2)                  |
|                       | 24VDC @ 10A            | 12VDC @ 6A     |                           |                                     |                            |                                      |  |
|                       | 24VDC @ 10A            | 24VDC @ 6A     |                           |                                     |                            |                                      |  |
| Maximal55E            | AL1012ULXB             | AL1012ULXB     | 2                         | —                                   | 5.2A                       | 5A/250V                              | 15A/32V                                |
|                       | 12VDC @ 10A            | 12VDC @ 10A    |                           |                                     |                            |                                      |  |
| Maximal75E            | AL1024ULXB2            | AL1012ULXB     | 2                         | —                                   | 7.0A                       | 5A/250V                              | 15A/32V                                |
|                       | 24VDC @ 10A            | 12VDC @ 10A    |                           |                                     |                            |                                      |  |
| Maximal77E            | AL1024ULXB2            | AL1024ULXB2    | 2                         | —                                   | 8.8A                       | 5A/250V                              | 15A/32V                                |
|                       | 24VDC @ 10A            | 24VDC @ 10A    |                           |                                     |                            |                                      |  |

## Maximal E Series

### Expandable Power Systems



#### Specifications

##### Input

Voltage 115VAC, 60Hz.  
Fusing 5A/250V.

##### 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  
AL600ULXB does not have a battery fuse.  
Failover Upon AC loss, instantaneous.

##### Supervision

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

##### Indicators (LED)

Input 115VAC is present.  
DC Output Powered.  
Battery Discharged or not connected.

#### Agency Listings

UL:  
UL294 Access Control System Units.  
cUL:  
C22.2 No.205-M1983 General Signaling Equipment;  
CSFM California State Fire Marshall Approved.

#### 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      |
|------------|----------------------|----------------------|
| Maximal11E | 42.3 lbs. (19.17 kg) | 46.3 lbs. (21.00 kg) |
| Maximal13E | 42.3 lbs. (19.17 kg) | 46.3 lbs. (21.00 kg) |
| Maximal33E | 43.5 lbs. (19.73 kg) | 47.5 lbs. (21.55 kg) |
| Maximal35E | 43.5 lbs. (19.73 kg) | 47.5 lbs. (21.55 kg) |
| Maximal37E | 42.3 lbs. (19.17 kg) | 46.3 lbs. (21.00 kg) |
| Maximal55E | 43.5 lbs. (19.73 kg) | 47.5 lbs. (21.55 kg) |
| Maximal75E | 42.3 lbs. (19.17 kg) | 46.3 lbs. (21.00 kg) |
| Maximal77E | 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 |
|------------|-------|-------|--------------|
| Maximal11E | 43    | 66    | 55           |
| Maximal13E | 45    | 82    | 45 or 82*    |
| Maximal33E | 74    | 147   | 111          |
| Maximal35E | 98    | N/A   | 130          |
| Maximal37E | N/A   | 197   | 160          |
| Maximal55E | 123   | N/A   | N/A          |
| Maximal75E | N/A   | N/A   | 184          |
| Maximal77E | N/A   | 246   | N/A          |

\*Depending on Power Supplies' settings