

## eFlow102NV Series Power Supply/Chargers

### Description

Altronix eFlow102NV series power supply/chargers convert a 220VAC (working range 198VAC - 256VAC), 50/60Hz input into a single fused, eight (8) or sixteen (16) fuse/PTC protected 12VDC outputs with a total of 10A max. They also offer a suite of features that includes fire alarm disconnect, overvoltage protection, and low power disconnect which prevents deep discharge of stand-by batteries.



eFlow102N8V

### Key Features

- Available with 1, 8 or 16 outputs.
- Fused or PTC protected outputs.
- Additional Aux. Output rated @ 1A.
- Overvoltage protection.
- Fire alarm disconnect.
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown.
- Built-in charger for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- Short circuit and overload protection.
- AC input and DC output options.
- CE Approved.
- Lifetime Warranty / Made in the U.S.A.

### eFlow102NV Series Power Supply Configuration Reference Chart

| Altronix<br>Model Number | Nominal DC Outputs            |                               | Maximum Supply<br>Current for Main and<br>Aux. Outputs (A) | Input Rating:<br>220VAC, 50/60Hz | Input Fuse Rating | Battery Fuse Rating | Ripple Voltage (mV)<br>Under low battery condition | Power Distribution<br>Module | Number of Outputs | Fused Outputs Ratings | Auto-Resettable<br>PTC Outputs Ratings | Accommodates up to<br>7AH Batteries | Accommodates up to<br>12AH Batteries |
|--------------------------|-------------------------------|-------------------------------|------------------------------------------------------------|----------------------------------|-------------------|---------------------|----------------------------------------------------|------------------------------|-------------------|-----------------------|----------------------------------------|-------------------------------------|--------------------------------------|
|                          | [DC]                          | [AUX]                         |                                                            |                                  |                   |                     |                                                    |                              |                   |                       |                                        |                                     |                                      |
|                          | 12VDC Output<br>Range (volts) | 12VDC Output<br>Range (volts) |                                                            |                                  |                   |                     |                                                    |                              |                   |                       |                                        |                                     |                                      |
| eFlow102NV               | 10.03-13.2                    | 10.03-13.2                    | 10A                                                        | 2.1A                             | 5A/250V           | 15A/32V             | 760                                                | N/A                          | 1                 | -                     | -                                      | ✓                                   | -                                    |
| eFlow102NXV              |                               |                               |                                                            |                                  |                   |                     |                                                    |                              |                   | -                     | -                                      | -                                   | ✓                                    |
| eFlow102N8V              | 10.03-13.2                    | 10.03-13.2                    | 10A                                                        | 2.1A                             | 5A/250V           | 15A/32V             | 760                                                | PD8                          | 8                 | 2.5A                  | -                                      | ✓                                   | -                                    |
| eFlow102NX8V             |                               |                               |                                                            |                                  |                   |                     |                                                    |                              |                   | 2.5A                  | -                                      | -                                   | ✓                                    |
| eFlow102N8DV             | 9.78-13.2                     | 10.03-13.2                    | 10A                                                        | 2.1A                             | 5A/250V           | 15A/32V             | 760                                                | PD8CB                        | 8                 | -                     | 2A                                     | ✓                                   | -                                    |
| eFlow102NX8DV            |                               |                               |                                                            |                                  |                   |                     |                                                    |                              |                   | -                     | 2A                                     | -                                   | ✓                                    |
| eFlow102N16V             | 10.03-13.2                    | 10.03-13.2                    | 10A                                                        | 2.1A                             | 5A/250V           | 15A/32V             | 760                                                | PD16W                        | 16                | 2.5A                  | -                                      | ✓                                   | -                                    |
| eFlow102NX16V            |                               |                               |                                                            |                                  |                   |                     |                                                    | 2 - PD8                      |                   | 2.5A                  | -                                      | -                                   | ✓                                    |
| eFlow102N16DV            | 9.78-13.2                     | 10.03-13.2                    | 10A                                                        | 2.1A                             | 5A/250V           | 15A/32V             | 760                                                | PD16WCB                      | 16                | -                     | 2A                                     | ✓                                   | -                                    |
| eFlow102NX16DV           |                               |                               |                                                            |                                  |                   |                     |                                                    | 2 - PD8CB                    |                   | -                     | 2A                                     | -                                   | ✓                                    |



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### Specifications

#### Input

|         |                                                               |
|---------|---------------------------------------------------------------|
| Voltage | 220VAC (working range 198VAC - 256VAC),<br>50/60Hz, 2.1A max. |
| Fusing  | 5A / 250V.                                                    |

#### Outputs

|            |                                                   |
|------------|---------------------------------------------------|
| Voltage    | 12VDC.                                            |
| Current    | 10A continuous max.                               |
| Protection | Fused 2.5A / PTC 2A.                              |
| Auxiliary  | 1A (unswitched).                                  |
| Other      | Overvoltage protection<br>Filtered and regulated. |

#### Back-up Battery *(not included)*

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| Capacity    | 7AH / 12VDC (1 within enclosure).<br>12AH / 12VDC (requires larger "X" enclosure).<br>40AH, 65AH (requires separate enclosure). |
| Type        | Sealed lead acid or gel type.                                                                                                   |
| Fuse Rating | 15A / 32VDC.                                                                                                                    |
| Failover    | Upon AC loss, instantaneous.                                                                                                    |

#### Fire Alarm Disconnect

|            |                           |
|------------|---------------------------|
| Supervised | Latching or non-latching. |
| EOL        | 10K Resistor.             |

#### 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.                     |
| Battery   | Discharged or not connected. |

#### Agency Listings

|    |                     |
|----|---------------------|
| CE | European Conformity |
|----|---------------------|

#### Physical and Environmental

##### Dimensions (H x W x D)

eFlow102NV, eFlow102N8(D)V, eFlow102N16(D)V:  
13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm).  
eFlow102NXV, eFlow102NX8(D)V, eFlow102NX16(D)V:  
15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

##### Product Weight / Shipping (approx.)

| Model            | Product Weight      | Shipping Weight     |
|------------------|---------------------|---------------------|
| eFlow102NV       | 6.55 lbs. (2.97 kg) | 7.45 lbs. (3.38 kg) |
| eFlow102NXV      | 8.4 lbs. (3.81 kg)  | 9.5 lbs. (4.31 kg)  |
| eFlow102N8(D)V   | 6.7 lbs. (3.04 kg)  | 7.6 lbs. (3.45 kg)  |
| eFlow102NX8(D)V  | 8.6 lbs. (3.9 kg)   | 9.7 lbs. (4.4 kg)   |
| eFlow102N16(D)V  | 6.85 lbs. (3.11 kg) | 7.75 lbs. (3.52 kg) |
| eFlow102NX16(D)V | 8.75 lbs. (3.97 kg) | 9.85 lbs. (4.47 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.): | 61 BTU/Hr. |

### 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
- Email and SNMP trap message notifications

