# eFlowNA Series
## Power Supply/Chargers with
## Multi-Output Access Power Controllers

### Description

Altronix eFlowNA series distribute and switch power to access control systems and accessories. They convert a 120VAC 60Hz input into eight (8) independently controlled 12VDC or 24VDC fuse protected outputs. These power outputs can be converted to dry form "C" contacts. Outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. The FACP Interface enables Emergency Egress, Alarm Monitoring, or may be used to trigger other auxiliary devices. The fire alarm disconnect feature is individually selectable for any or all of the eight (8) outputs.


eFlow102NA8

### Key Features

- Eight (8) independently controlled outputs.

  Output options:
    a) Eight (8) Fail-Safe and/or Fail-Secure power outputs.
    b) Eight (8) form "C" 5A rated relay outputs.
    c) Any combination of the above.

- Eight (8) auxiliary power outputs (unswitched).

- Output fuses are rated @ 3.5A.

- Filtered and electronically regulated outputs.

- Supervision:
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown

- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the eight (8) outputs.

- Alarm output relay indicates that FACP input is triggered.

- Fire Alarm disconnect input options:
    a) Normally open (NO) or normally closed (NC) dry contact input
    b) Polarity reversal input from FACP signaling circuit

- Built-in charger for sealed lead acid or gel type batteries.

- Instantaneous transfer to stand-by batteries.

- UL Listed in the U.S. and Canada.

- CE Approved.

- Lifetime Warranty / Made in the U.S.A.

## eFlowNA Series Power Supply Configuration Reference Chart

| Altronix Model Number | Maximum Supply Current for Main and Aux. Outputs (A) | | Fuse Protected Outputs | 120VAC 60 Hz Input Current (A) | Current per ACM8 output (A) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating | ACM8 Board Input Fuse Rating | ACM8 Board Output Fuse Rating |
|---|---|---|---|---|---|---|---|---|---|
| | 12VDC | 24VDC | | | | | | | |
| eFlow4NA8 | 3.3A | 3.6A | 8 | 3.5A | 2.5A | 5A/250V | 7.5A/32V | 10A/250V | 2.5A/250V |
| eFlow6NA8 | 5.3A | 5.6A | 8 | 3.5A | 2.5A | 5A/250V | 10A/32V | 10A/250V | 2.5A/250V |
| eFlow102NA8 | 9.3A | —— | 8 | 3.5A | 2.5A | 5A/250V | 15A/32V | 10A/250V | 2.5A/250V |
| eFlow104NA8 | —— | 9.6A | 8 | 4.5A | 2.5A | 6.3A/250V | 15A/32V | 10A/250V | 2.5A/250V |

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## Multi-Output Access Power Controllers

**Altronix®**

## Specifications

### Input

| | |
|---|---|
| Voltage | 120VAC, 60Hz. |
| Fusing | Varies, see Reference Chart. |

### Outputs

| | |
|---|---|
| Voltage | 12VDC or 24VDC, see Reference Chart. |
| Current | Varies, depending on the model. |
| Protection | Fused 2.5A. |
| Auxiliary | 3.5A (unswitched). |
| Other | Overvoltage protection.<br>Filtered and regulated outputs. |

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

| | |
|---|---|
| Capacity | 12AH / 12VDC (1 or 2 within enclosure).<br>18AH / 40 AH / 65 AH<br>(requires separate enclosure). |
| Type | Sealed lead acid or gel type. |
| Fuse Rating | Varies, see Reference Chart. |
| Failover | Upon AC loss, instantaneous. |

### Fire Alarm Disconnect

| | |
|---|---|
| Supervised | Latching or non-latching, individually<br>selectable for any or all of the eight (8) outputs. |
| 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 | 120VAC is present. |
| DC Output | Powered. |
| Battery | Discharged or not connected. |
| Relays | Individual LEDs indicate outputs are triggered (relays energized). |
| FACP | Indicates FACP disconnect is triggered. |

### Agency Listings

| | |
|---|---|
| Access Control | UL294<br>ULC-S319-05 |
| Signal Equipment | CSA Standard C22.2<br>No.205-M1983 |

California State Fire Marshall Approved

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

### Physical and Environmental

Dimensions (H x W x D)
15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).

Product Weight / Shipping (approx.)

| Model | Product Weight | Shipping Weight |
|---|---|---|
| eFlow4NA8 | 8.65 lbs. (3.92 kg) | 9.95 lbs. (4.51 kg) |
| eFlow6NA8 | 8.6 lbs. (3.9 kg) | 9.9 lbs. (4.49 kg) |
| eFlow102NA8 | 8.65 lbs. (3.92 kg) | 9.95 lbs. (4.51 kg) |
| eFlow104NA8 | 8.9 lbs. (4.04 kg) | 10.2 lbs. (4.63 kg) |

Temperature

| | |
|---|---|
| Operating | 0ºC to 49ºC (32ºF to 120ºF). |
| Storage | -20ºC to 70ºC (-4ºF to 158ºF). |
| Relative Humidity | 85% +/-5% |

BTU/Hr. (12VDC/24VDC, approx.):

| Model | 12VDC | 24VDC |
|---|---|---|
| eFlow4NA8 | 25 | 50 |
| eFlow6NA8 | 37 | 74 |
| eFlow102NA8 | 61 | N/A |
| eFlow104NA8 | N/A | 123 |

## 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

**LINQ** TECHNOLOGY