

eFlowNAV Series Power Supply/Chargers with Multi-Output Access Power Controllers

Description

Altronix eFlowNAV series distribute and switch power to access control systems and accessories. They convert a 220VAC (working range 198VAC - 256VAC), 50/60Hz 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.



eFlow102NA8V

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

eFlowNAV Series Power Supply Configuration Reference Chart

Altronix Model Number	Maximum Supply Current for Main and Aux. Outputs (A)		Fuse Protected Outputs	220VAC 50/60 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							
eFlow4NA8V	3.3A	3.6A	8	2.1A	2.5A	5A/250V	7.5A/32V	10A/250V	2.5A/250V
eFlow6NA8V	5.3A	5.6A	8	2.1A	2.5A	5A/250V	10A/32V	10A/250V	2.5A/250V
eFlow102NA8V	9.3A	—	8	2.1A	2.5A	5A/250V	15A/32V	10A/250V	2.5A/250V
eFlow104NA8V	—	9.6A	8	2.7A	2.5A	6.3A/250V	15A/32V	10A/250V	2.5A/250V



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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, depending on the model.
Protection Fused 3.5A.
Auxiliary 2.5A (unswitched).
Other Overvoltage protection.
Filtered and regulated outputs.

Back-up Battery *(not included)*

Capacity 12AH / 12VDC (1 or 2 within enclosure).
18AH / 40AH / 65AH
(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
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 220VAC is present.
DC Output Powered.
Relays Individual LEDs indicate outputs are
triggered (relays energized).
FACP Indicates FACP disconnect is triggered.

Agency Listings

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).
Accommodates up to two (2) 12VDC/12AH batteries.

Product Weight / Shipping (approx.)

Model	Product Weight	Shipping Weight
eFlow4NA8V	8.65 lbs. (3.92 kg)	9.95 lbs. (4.51 kg)
eFlow6NA8V	8.6 lbs. (3.9 kg)	9.9 lbs. (4.49 kg)
eFlow102NA8V	8.65 lbs. (3.92 kg)	9.95 lbs. (4.51 kg)
eFlow104NA8V	8.9 lbs. (4.04 kg)	10.2 lbs. (4.63 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. (12VDC/24VDC, approx.):

Model	12VDC	24VDC
eFlow4NA8V	25	50
eFlow6NA8V	37	74
eFlow102NA8V	61	N/A
eFlow104NA8V	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
- Reports system diagnostics via Email

