

eFlowNAD Series

Power Supply/Chargers with Multi-Output Access Power Controllers

Description

Altronix eFlowNAD 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 Class 2 Rated power-limited PTC protected outputs. 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.



eFlow6NA8D

Key Features

- Eight (8) independently controlled Class 2 Rated power-limited PTC Protected auto-resettable outputs.
- Output options:
 - a) Eight (8) Fail-Safe filtered power outputs.
 - b) Eight (8) Fail-Secure filtered power outputs.
 - c) Any combination of the above.
- Eight (8) auxiliary power outputs (unswitched).
- Output PTCs are rated @ 2.5A.
- 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.

eFlowNAD Series Power Supply Configuration Reference Chart

Altronix Model Number	Maximum Supply Current for Main and Aux. Outputs (A)		Class 2 Rated PTC Protected Power-Limited Outputs (auto-resettable)	120VAC 60 Hz Input Current (A)	Current per ACM8CB output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	ACM8CB Board Input Fuse Rating	ACM8CB Board Output PTC Rating
	12VDC	24VDC							
eFlow4NA8D	3.3A	3.6A	8	3.5A	2.5A	5A/250V	7.5A/32V	10A/250V	2.5A
eFlow6NA8D	5.3A	5.6A	8	3.5A	2.5A	5A/250V	10A/32V	10A/250V	2.5A
eFlow102NA8D	9.3A	—	8	3.5A	2.5A	5A/250V	15A/32V	10A/250V	2.5A
eFlow104NA8D	—	9.6A	8	4.5A	2.5A	6.3A/250V	15A/32V	10A/250V	2.5A

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

eFlowNAD Series

Power Supply/Chargers with Multi-Output Access Power Controllers



Specifications

Input

Voltage 120VAC, 60Hz.
Input Fuse Varies, see Reference Chart.

Outputs

Class 2 Rated power-limited PTC Protected Outputs (auto-resettable).
Voltage 12VDC or 24VDC, see Reference Chart.
Current Varies, depending on the model.
Protection PTC 2.5A.
Auxiliary 3.5A (unswitched).
Other Overvoltage protection.
Filtered and regulated outputs.

Back-up Battery *(not included)*

Capacity 12AH / 12VDC (1 or 2 within enclosure).
18AH / 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.

Fire Alarm Disconnect

Supervised Latching or non-latching, individually selectable for any or all of the eight (8) outputs.
EOL 10K Resistor.

Indicators (LED)

Input 120VAC is present.
DC Output Powered.
Relays Individual LEDs indicate outputs are triggered (relays energized).
FACP Indicates FACP disconnect is triggered.

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.
CSFM 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
eFlow4NA8D	8.65 lbs. (3.92 kg)	9.95 lbs. (4.51 kg)
eFlow6NA8D	8.6 lbs. (3.9 kg)	9.9 lbs. (4.49 kg)
eFlow102NA8D	8.65 lbs. (3.92 kg)	9.95 lbs. (4.51 kg)
eFlow104NA8D	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
eFlow4NA8D	25	50
eFlow6NA8D	37	74
eFlow102NA8D	61	N/A
eFlow104NA8D	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



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