

eFlow3N Series Power Supply/Chargers

Description

Altronix eFlow3N series power supply/chargers convert a 120VAC 60Hz input into a single or four (4) fuse/PTC protected Class 2 power-limited outputs. Outputs are selectable for 12VDC or 24VDC with a total of 2A max. It also offers a suite of features that includes fire alarm disconnect, overvoltage protection, and low power disconnect which prevents deep discharge of stand-by batteries.



eFlow3N4D

Key Features

- Available with 1 or 4 outputs.
- Fuse or PTC protected Class 2 power-limited outputs.
- Additional aux. Class 2 power-limited 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 indicators.
- UL Listed in the U.S. and Canada.
- CE Approved.
- Lifetime Warranty / Made in the U.S.A.

eFlow3N series Power Supply Configuration Reference Chart

Altronix Model Number	Nominal DC Outputs				Maximum Supply Current for Main and Aux. Outputs (A)	Input Rating: 120VAC, 60Hz	Input Fuse Rating	Battery Fuse Rating	Ripple Voltage (mV) Under low battery condition	Power Distribution Module	Number of Outputs	Fused Outputs Ratings	Auto-Resettable PTC Outputs Ratings	Accommodates up to 7AH Batteries	Accommodates up to 12AH Batteries
	[DC]		[AUX]												
	12VDC Output Range (volts)	24VDC Output Range (volts)	12VDC Output Range (volts)	24VDC Output Range (volts)											
eFlow3N	10.13-13.2	20.28-26.39	10.15-13.2	20.2-26.39	2A	3.5A	5A/250V	3A/32V	960	N/A	1	–	–	✓	–
eFlow3NX												–	–	–	✓
eFlow3N4	10.13-13.2	20.28-26.39	10.15-13.2	20.2-26.39	2A	3.5A	5A/250V	3A/32V	960	PD4UL	4	2A	–	✓	–
eFlow3NX4												2A	–	–	✓
eFlow3N4D	9.78-13.2	20.28-26.39	10.15-13.2	20.2-26.39	2A	3.5A	5A/250V	3A/32V	960	PD4ULCB	4	–	2A	✓	–
eFlow3NX4D												–	2A	–	✓



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Specifications

Input

Voltage 120VAC, 60Hz, 3.5A max.
Fusing 5A / 250V.

Outputs

Voltage 12VDC or 24VDC selectable.
Current 2A continuous max.
Protection Fused: 2A / PTC: 2A.
Auxiliary Class 2 power-limited @ 1A (unswitched).
Other Overvoltage protection.
Filtered and regulated.

Back-up Battery *(not included)*

Capacity 7AH / 12VDC (1 or 2 within enclosure).
12AH / 12VDC (requires larger "X" enclosure).
40AH, 65AH (requires separate enclosure).
Type Sealed lead acid or gel type.
Fuse Rating 10A @ 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 120VAC is present.
DC Output Powered.
Battery Discharged or not connected.

Agency Listings

UL:

UL294 Access Control System Units.
UL603 Power Supplies for Use with Burglar-Alarms Systems.
UL1481 Power Supplies for Fire Protective Signaling Systems.

cUL:

ULC-S318-96 Power Supplies for Burglar Alarm Systems. Also suitable for Access Control.

CSFM

California State Fire Marshall Approved.

CE

European Conformity

Physical and Environmental

Dimensions (H x W x D)

eFlow3N, eFlow3N4(D):
13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm).
eFlow3NX, eFlow3NX4(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
eFlow3N	6.3 lbs. (2.86 kg)	7.2 lbs (3.27 kg)
eFlow3NX	8.15 lbs. (3.7 kg)	9.1 lbs (4.13 kg)
eFlow3N4(D)	6.45 lbs. (2.93 kg)	7.35 lbs (3.33 kg)
eFlow3NX4(D)	8.3 lbs. (3.76 kg)	9.6 lbs (4.2 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.):

12VDC: 12 BTU/Hr.
24VDC: 25 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

