

eFlow104N Series Power Supply/Chargers

Description

Altronix eFlow104N series power supply/chargers convert a 120VAC, 60Hz input into a single, eight (8), or sixteen (16) fused outputs or PTC protected Class 2 power-limited 24VDC 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.



eFlow104N8

Key Features

- Available with 1, 8 or 16 outputs.
- Fused outputs 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.

eFlow104N 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] | | | | | | | | | | | |
| | 24VDC Output Range (volts) | 24VDC Output Range (volts) | | | | | | | | | | | |
| eFlow104N | 20.17-26.4 | 20.28-26.4 | 10A | 4.5A | 6.3A/250V | 15A/32V | 700 | N/A | 1 | - | - | ✓ | - |
| eFlow104NX | | | | | | | | | | - | - | - | ✓ |
| eFlow104N8 | 20.17-26.4 | 20.28-26.4 | 10A | 4.5A | 6.3A/250V | 15A/32V | 700 | PD8UL | 8 | 2.5A | - | ✓ | - |
| eFlow104NX8 | | | | | | | | | | 2.5A | - | - | ✓ |
| eFlow104N8D | 20.0-26.4 | 20.28-26.4 | 10A | 4.5A | 6.3A/250V | 15A/32V | 700 | PD8ULCB | 8 | - | 2A | ✓ | - |
| eFlow104NX8D | | | | | | | | | | - | 2A | - | ✓ |
| eFlow104N16 | 20.17-26.4 | 20.28-26.4 | 10A | 4.5A | 6.3A/250V | 15A/32V | 700 | PD16W | 16 | 2.5A | - | ✓ | - |
| eFlow104NX16 | | | | | | | | 2 - PD8UL | | 2.5A | - | - | ✓ |
| eFlow104N16D | 20.0-26.4 | 20.28-26.4 | 10A | 4.5A | 6.3A/250V | 15A/32V | 700 | PD16WCB | 16 | - | 2A | ✓ | - |
| eFlow104NX16D | | | | | | | | 2 - PD8ULCB | | - | 2A | - | ✓ |



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Specifications

Input

Voltage 120VAC, 60Hz, 4.5A max.
Fusing 6.3A / 250V.

Outputs

Voltage 24VDC.
Current 10A continuous max.
Protection Fused 2.5A / PTC 2A.
Auxiliary Class 2 power-limited @ 1A (unswitched).
Other Overvoltage protection
Filtered and regulated.

Back-up Battery *(not included)*

Capacity 7AH / 12VDC (2 within enclosure).
12AH / 12VDC (requires larger "X" enclosure).
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 120VAC is present.
DC Output Powered.
Battery Discharged or not connected.

Agency Listings

Access Control UL294
Burglar Alarm UL603, ULC-S318-96
Fire Alarm UL1481
California State Fire Marshall Approved
CE European Conformity

Physical and Environmental

Dimensions (H x W x D)

eFlow104N, eFlow104N8(D), eFlow104N16(D):
13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm).
eFlow104NX, eFlow104NX8(D), eFlow104NX16(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 |
|-----------------|---------------------|----------------------|
| eFlow104N | 6.8 lbs. (3.08 kg) | 7.7 lbs. (3.49 kg) |
| eFlow104NX | 8.65 lbs. (3.92 kg) | 9.75 lbs. (4.42 kg) |
| eFlow104N8(D) | 6.95 lbs. (3.15 kg) | 7.85 lbs. (3.56 kg) |
| eFlow104NX8(D) | 8.8 lbs. (3.99 kg) | 9.9 lbs. (4.49 kg) |
| eFlow104N16(D) | 7.1 lbs. (3.22 kg) | 8 lbs. (3.63 kg) |
| eFlow104NX16(D) | 8.95 lbs. (4.06 kg) | 10.05 lbs. (4.56 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.): 123 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

