

## Model N 10 Amp Power Supplies

12 VDC, 13 VDC, OR 24 VDC Output Versions



3.4" W x 6" H x 8.1" D

- AC line input voltage 80 VAC to 135 VAC, 45/65 Hz
- AC input power cord, fuse protected
- **Power factor correction ≥ 0.95**
- Available with 12 VDC, 13 VDC, or 24VDC output
- DC output fuse protected + LED Indication
- Advanced switch mode design provides high efficiency
- Low conducted and radiated emissions
- Operating Temperature: -40° C to +85° C

**Models: N-12V-10A** (Output 12 VDC @ 10 Amp)

**N-13V-10A** (Output 13 VDC @ 10 Amp) **N-24V-10A** (Output 24 VDC @ 10 Amp)

\*Contact Reno A&E for other output voltages



## **Model N Specifications**

**General:** The power supply incorporates an advanced **Load Regulation:** ±2% switch mode design. Efficiency is 80% or greater, nominally 90% or greater at 120 VAC input. D.C. output is rated at 10 Amps for all voltages. Output protected with a 10 Amp 3AG Fast blow fuse. load regulation is ±2%

Standards

Operating Ambient Temperature: -40° C to +85° C

**Power Factor:** ≥ 0.95 **Efficiency:**  $\geq 80\%$ 

**Input power cord:** AC Line voltage is supplied via a 10 foot long three conductor 18 AWG power cord.

**Power Switch:** A rocker style front panel mounted critical component failure or excessive load. switch controls the input AC line voltage.

pre-sent (≥70 VAC) the front panel LED illuminates green. The LED extinguishes when AC voltage is absent or low.

**Input Line Frequency:** 47 Hz to 63 Hz Input Line Voltage: 80 VAC to 135 VAC

**Line Regulation:**  $\pm 0.1\%$ **Power Factor:** ≥0.95

**Input Fuse Protection:** The AC line is protected with

a 4 Amp slow blow 3AG fuse.

volt-age is accessed via a front-panel mounted three contact terminal strip.

Over current protection: The A.C. input and D.C. inches deep out-puts are fused with front panel accessible 3AG Weight: 2.71 pounds. slow blow fuses. If the D.C. load exceeds 14 Amps for longer than 100 milliseconds the D.C. output is shut down. Once the excessive load is removed the power supply recovers.

Output voltage indication: When the DC output voltage exceeds more than ±1 VDC from the nominal output volt-age the front panel LED changes from green to red. The LED remains red until output voltage returns to within ±1 VDC of the nominal output voltage. If the power supply shuts down due to a fault, the front panel LED turns off.

**DC Outputs:** 12 VDC ±2%, 13 VDC ±2%, 24 VDC ±2% @ 10 Amps max. (Contact Reno A&E for different output voltages.)

Output Ripple: Less than 100 mV Peak to Peak Output Fuse Protection: The DC output is

**Initial start-up:** A soft start feature is provided Environmental: Complies with NEMA TS-2 2003 for starting up under heavy loads. Power draw from the A.C. line is ramped up over a 4 millisecond period.

> **In-rush current:** In-rush current is limited to less than 3 Amps A.C.

> **Self-checking:** Self-monitoring features insure shut-down of the D.C. output in the event of a

**Emissions:** Radiated and conductive emissions Input voltage Indication: When AC Line voltage is are in compliance with FCC part 15, Class A. An aluminum en-closure and EMI filter minimize radiated and conductive emissions.

> **Circuit Board:** The printed circuit board is 0.062 inch thick FR4 material with 2 Oz. Copper. All holes are plated through. Circuit boards and components are conformal coated with a polyurethane coating.

**Enclosure:** The power supply is shelf mounted. The en-closure provides attachment points Output voltage connector: Regulated DC output on top, bottom, both sides, and back for rigid mounting.

Size: 3.4 inches wide  $\times$  6.0 inches high  $\times$  8.1

