



## 15 & 40 Watts

Single Outputs

- Wide Input voltage range 9 - 36 Vdc
  - 17 36 Vdc
- Efficiency to 85%
- Pi Input filter
- Six-sided shielding
- Regulated outputs

# Specifications

### **INPUT**

Voltage Range 9 - 36Vdc

17 - 36Vdc Pi Filter

Reverse Polarity Protected To Nominal Input Current

External Fuse Required

### OUTPUT

Filtering

Voltage Tolerance ± 2% Ripple and Noise 50mV pk-pk

Overvoltage Protection 15 W - Zenner Clamp

40 W - Crowbar **Short Circuit Protection** Continuous Power Cycle

Trim Adjustability ±10% (typ) 0.02% / °C Temperature Coefficient

### **GENERAL**

Regulation:

Line 0.5% Load 0.5%

Efficiency 80-85% (typ)

Not galvanically isolated I/O Isolation

Switching Frequency 100khz (typ)

### **ENVIRONMENTAL**

**Operating Temperature** Storage Temperature Cooling

-25°C to +71°C No Derating

-25°C to +105°C Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

he N Series are high quality, wide-input, efficient 15 and 40 watt DC/DC converters. Features include: Pi input filtering to reduce input reflected ripple, and efficiencies to 85%. Other key features include: overvoltage protection, output trim adjustability (±10%), and continuous short circuit protection. Packaged in a six-sided shielded case, the 15 watt N Series measures only 2.0" x 2.0" x 0.4". Packaged in a six-sided shielded case, the 40 watt N Series measures only 2.5" x 3.5" x 0.83".

## **Applications**

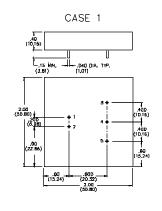
The N Series is designed for batterypowered or portable, space-critical applications, as well as other applications not requiring input-output isolation.

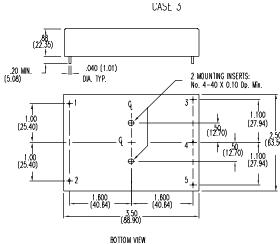


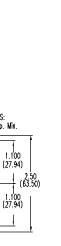
## N Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Case	Model Number
9-36 Vdc	5 Vdc	3000mA	1	NA11-300-18
9-36 Vdc	5 Vdc	8000mA	2	NC11-800-18
9-36 Vdc	5 Vdc	8000mA	3	NW11-800-18
17-36 Vdc	12 Vdc	3300mA	2	NC12-330-18
17-36 Vdc	12Vdc	3300mA	3	NW12-330-18

## **Dimensions and Connections**

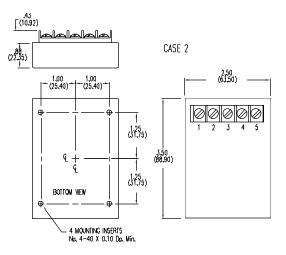






## PIN CONNECTIONS Single Output

- 1. +Input
- 2. -Input
- 3. +Output
- 4. Trim
- 5. Common



#### NOTES:

- 1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
- 2. Load regulation from full load to minimum load (25%).
- 3. Metal case (shield) is connected to pin 2 and 5.
- 4. External Output Trimming: Output may be externally trimmed ±10%.

09/10/2003