

UP TO 19.5 WATTS - N SERIES

Highly Efficient, Unregulated

FEATURES

- ◆ Industry Standard Package and Pin-Out
- ◆ Low Profile Package
- ◆ Power fold back short circuit protection
- ◆ High Operating Efficiency
- ◆ 500VDC I/O isolation
- ◆ Low Output Ripple and Noise
- ◆ Five Year Warranty



THE N SERIES FROM WALL INDUSTRIES

The N Series of single and dual output DC/DC converters features a low profile package of 2.0" x 2.0" x 0.4" with output power up to 19.5 watts. Other key features of the N Series are its Pi-input filter, low output ripple/noise, short circuit protection, 500VDC input/output isolation, and 83% efficiency.

SPECIFICATIONS: N SERIES

All specifications apply @ +25 C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltages .....	5, 12, 24, 48VDC ± 10%
Input Reflected Ripple (P-P) .....	≤ 10% I in DC
Input Voltage Tolerance .....	± 10%
Input Filter .....	Pi Input Filter

OUTPUT SPECIFICATIONS

Output Current .....	see table
Output Voltage Tolerance .....	± 3% nominal
Line Regulation .....	1.2%/1% Vin (5Vout - 1.5%/1% Vin)
Load Regulation .....	± 10% between 10 to 100% load
Short Circuit Protection .....	Power fold back
Ripple/Noise (20MHz BW) .....	≤ 100mV P-P

GENERAL SPECIFICATIONS

Efficiency .....	83% typical
Isolation Voltage (input to output) .....	500VDC min.
Isolation Resistance (input to output) .....	500MΩ
Switching Frequency .....	60kHz typical

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....	-25 to +85°C (case)
Storage Temperature .....	-55 to +100°C
Humidity (non-condensing) .....	20 - 95% R.H.
Cooling .....	Free Air Convection

PHYSICAL SPECIFICATIONS

Weight .....	1.8 oz.
Dimensions .....	2.0 x 2.0 x 0.4"
Case Material .....	Non-metallic case

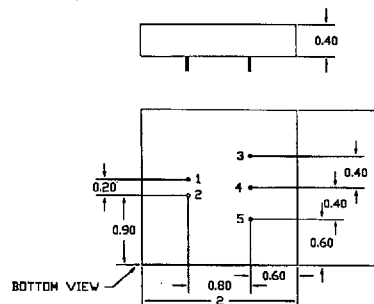
Due to advances in technology, specifications subject to change without notice.

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Output Power (Watts)	Model Number (with Center Pin-out)	Model Number (with Standard pin-out)
5 VDC	5	750	3.75	NCS55-750	N5S5-750
	10	600	6.0	NCS510-600	N5S10-600
	12	600	7.2	NCS512-600	N5S12-600
		800	9.6	NCS512-500	N5S12-800
	15	500	7.5	NCS515-500	N5S15-500
	± 12	300	7.2	NCD512-300	N5D12-300
		400	9.6	NCD512-400	N5D12-400
	± 15	300	9.0	NCD515-300	N5D15-300
		400	12.0	NCD515-400	N5D15-400
	12VDC	12	500	6.0	NCS1212-500
24		400	9.6	NCS1224-400	N12S24-400
± 12		500	12.0	NCD1212-500	N12D12-500
		650	15.6	NCD1212-650	N12D15-650
± 15		500	15.0	NCD1215-500	N12D15-500
		650	19.5	NCD1215-650	N12D15-650
18 VDC	36	500	18	NCS1836-500	N18S36-500
24 VDC	5	1300	6.5	NCS245-1300	N24S5-1300
		3600	18.0	NCS245-3600	N24S5-3600

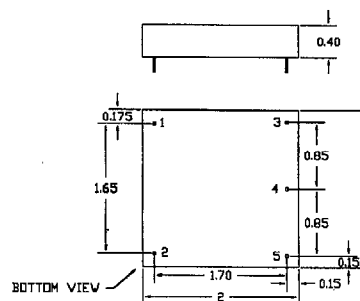
PIN CONNECTIONS		
	Single	Dual
1	+ Vin	+ Vin
2	- Vin	- Vin
3	+ Vout	+ Vout
4	N/C	Common
5	- Vout	- Vout

- Notes:
1. All case and pin to case dimensions reference only unless otherwise noted.
  2. PC Pins: 0.04" diameter x 0.20" long (min.); typical five places.
  3. Pin to pin tolerance: ±0.01". Pin Diameter tolerance: ±0.005".
  4. Significant capacitive load may inhibit start-up and operation, consult factory.
  5. All DC/DC converters should be externally fused on the front end for protection.
  6. Custom and modified product considered, consult factory.

Center Pinout



Standard Pinout



9564164 0000382 771