

POWER TRANSFORMER CHASSIS MOUNT: Isolation

N-48X

Electrical Specifications (@25°C)

1. Maximum Power: 15 VA

2. Input Voltage: 115 V, 50 / 60 Hz
 3. Output Voltage: 115V ± 5%

4. Full Secondary Load: 0.13 Amps RMS

5. Voltage Regulation: 20 % TYP @ full load to no load

Description:

The N-48X is power transformer for isolating equipment from direct connection to the power line. It is constructed with nonconcentrically wound coils. The primary and secondary are wound on separate arbors, then assembled on a laminate core side-by-side separated by insulation. This prevents electrical connection under normal or overload conditions between the primary and secondary windings.

Safety:

These units are designed with 1500V isolation between winding to winding and between winding and core. Materials and construction are rated for Class B insulation system.

 Dimensions:
 Unit: In inches

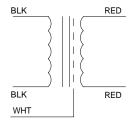
 A
 B
 C
 D

 1.937
 3.312
 2.00
 2.812

Weight: 1.35 lbs

Connections: 7.0±1" leads, 0.250±0.062" Skin & Tin

Schematic:

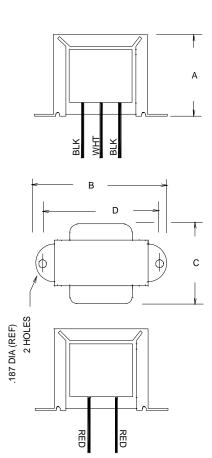


Input: Blk to Blk
Output: Red to Red

Shield: Wht

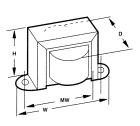
RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2002/95/EC, known as the RoHS initiative.

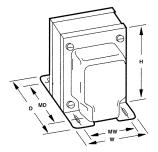


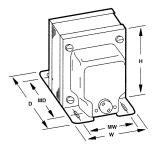


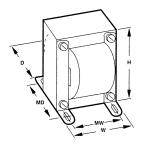
Power Transformers

Isolation / Medical









Case Type X

Case Type A

Case Type M

Case Type U

:: Description

Triad isolation transformers are power transformers for isolating equipment from direct connection to the power line. They are offered in a variety of voltages and case types. Triad isolation transformers are also offered in hospital type (designed with an MD suffix) which are designed and constructed to meet the low leakage current requirements for today's medical equipment. The transformers are constructed with nonconcentrically wound coils. The primary and secondary are wound on separate arbors, then assembled on a laminate core side-by-side separated by insulation. This prevents

electrical connection, under normal or overload conditions, between the primary and secondary windings. These hospital type units are offered with a resettable circuit breaker, providing protection from overload and short circuit conditions.

:: Specifications

Primary: 115/230 VAC, 50/60 Hz **Secondary:** 115/230 VAC **Output Watts:** 15 to 1,000 VA

:: Standard Applications

| | | | | Secon | | Lead | | | | Mounting | | | | |
|---------|------------------|------------|--------------------|----------------|--------------|----------------|---------------------------------|---------------|------------|--|---------------------------------|------------|---------------|--------------|
| Section | Type No. | VA | Primary Voltage | Volts ±5% | Amps | Case Type | Connections | Holes Used | H | Dimension W | s D | Dime MW | ensions MD | Wt. Lbs. |
| A | N-48X | 15 | 115 | 115.0 | 0.13 | X (1) | Leads | • | 115/16 | 35/16 | 2 | 213/16 | • | 1.35 |
| В | N-51X | 35 | 115 | 115.0 | 0.3 | X (1) | Leads | • | 2%32 | 311/16 | 21/8 | 31/8 | • | 1.70 |
| С | N-68X | 50 | 115/230§ | 115.0 | 0.435 | X (1) | Leads | • | 21/32 | 311/16 | 21/8 | 31/8 | • | 1.70 |
| | N-53M | 85 | 115 | 115.0 | 0.74 | M (3) | 6' Cord, Plug | • | 319/32 | 231/32 | 3¾ | 21/4 | 2⅓ | 4.70 |
| D | N-53MG√ | 85 | 115 | 115.0 | 0.74 | M (3) | & Socket 6' Cord, Plug & Socket | • | 319/32 | 231/32 | 41/8 | 21/4 | 27/8 | 4.70 |
| Е | N-76U* N-77U* | 100 100 | 115 115/230 | 115.0 115.0 | 0.86 0.86 | U (2) U (2) | Leads Leads | • | 3½6 3½6 | 2 ¹³ / ₁₆ 2 ¹³ / ₁₆ | 3 3 | 2½ 2½ | 2½ 2½ | 4.00 4.00 |
| | N-54M | 150 | 115 | 115.0 | 1.3 | M (3) | 6' Cord, Plug | • | 37/8 | 3%32 | 41/4 | 2½ | 3 | 7.00 |
| F | N-54MG√ | 150 | 115` | 115.0 | 1.3 | M (3) | & Socket 6' Cord, Plug & Socket | • | 37/8 | 31/32 | 5 ¹³ / ₁₆ | 2½ | 31/2 | 7.00 |
| | N-73A | 150 | 115 | 115/230§ | 0.65 | A (3) | Leads | 1 | 37/8 | 31/32 | 35/8 | 21/2 | 2¾ | 7.00 |
| | N-67A | 150 | 115/230§ | 115.0 | 1.3 | A (3) | Leads | 2 | 37/8 | 3%32 | 37/8 | 21/2 | 3 | 7.00 |
| | N-55M | 250 | 115 | 115.0 | 2.17 | M (3) | 6' Cord, Plug & Socket | • | 45/8 | 315/16 | 5 | 3 | 313/16 | 11.00 |
| G | N-55MG√ | 250 | 115 | 115.0 | 2.17 | M (3) | 6' Cord, Plug & Socket | • | 45/8 | 315/16 | 5 | 3 | 313/16 | 11.00 |
| | N-255MG√ | 250 | 230 | 115.0 | 2.17 | M (3) | 6' Cord, Plug & Socket | • | 45/8 | 315/16 | 5 | 3 | 313/16 | 11.00 |
| | N-66A | 250 | 115/230§ | 115.0 | 2.17 | A (3) | Leads | 2 | 4 ½ | 315/16 | 45/8 | 3 | 3 5/8 | 11.00 |
| Н | N-57M | 500 | 115 | 115.0 | 4.35 | M (5) | 6' Cord, Plug & Socket | • | 55/16 | 41/2 | 61/4 | 3½ | 5½ | 23.75 |

§ Split winding $\sqrt{\text{With ground wire}}$ *Unit does not include static shield Mounting hole sizes: (1) = $\frac{4}{16}$ " (2) = $\frac{1}{16}$ % $\frac{4}{16}$ " (3) = $\frac{4}{16}$ % $\frac{4}{16}$ " (5) = $\frac{4}{12}$ % $\frac{4}{16}$ " (5) = $\frac{4}{12}$ % $\frac{4}{16}$ " (5) = $\frac{4}{12}$ % $\frac{4}{16}$ " (7)

∷ Standard Applications continued

| | Secondary | | | | | | | | | | | Mounting | | | | |
|---------|-----------|-------|---------|-------|------|-------|---------------|------|------------|------|------|------------|------|-------|--|--|
| Type | | | Primary | Volts | | | Case | | Dimensions | | | Dimensions | | Wt. | | |
| Section | No. | VA | Voltage | ±5% | Amps | Type | Connections | Used | H | W | D | MW | MD | Lbs. | | |
| | N-57MG√ | 500 | 115 | 115.0 | 4.35 | M (5) | 6' Cord, Plug | • | 55/16 | 41/2 | 61/4 | 31/2 | 51/8 | 23.75 | | |
| | | | | | | | & Socket | | | | | | | | | |
| A | N-257MG√ | 500 | 230 | 115.0 | 4.35 | M (5) | 6' Cord, Plug | • | 51/16 | 41/2 | 61/4 | 31/2 | 51/8 | 23.75 | | |
| | | | | | | | & Socket | | | | | | | | | |
| | N-59M | 1,000 | 115 | 115.0 | 8.70 | M (5) | 6' Cord, Plug | • | 55/16 | 41/2 | 71/8 | 31/2 | 6 | 31.0 | | |
| | | | | | | | & Socket | | | | | | | | | |
| В | N-59MG√ | 1,000 | 115 | 115.0 | 8.70 | M (5) | 6' Cord, Plug | • | 51/16 | 41/2 | 71/8 | 31/2 | 6 | 31.0 | | |
| | | | | | | | & Socket | | | | | | | | | |
| | N-259MG√ | 1,000 | 230 | 115.0 | 8.70 | M (5) | 6' Cord, Plug | • | 55/16 | 41/2 | 71/8 | 31/2 | 6 | 31.0 | | |
| | | | | | | | & Socket | | | | | | | | | |

 $\sqrt{\text{With ground wire}}$ Mounting hole sizes: (5) = $\frac{1}{2} x \frac{1}{4}$ "

Technical Notes

- Line cord, plug and receptacle are U.L. listed and verified to meet federal specifications.
 Connections are by leads, plugs and sockets.

- 3. Hi-pot tested at 1,500 VRMS.
- 4. All units have static shields, except those marked with an asterisk.

:: Medical/Dental Applications



| Secondary | | | | | | | | Lead | | Mounting | | | | | | |
|-----------|--------|-----|---------|-------|------|-------|--|-------|------------|----------|------|------|--------|------|--|--|
| | Туре | | Primary | Volts | RMS | Case | | Holes | Dimensions | | | Dime | Wt. | | | |
| Section | No. | VA | Voltage | ±5% | Amps | Туре | Connections | Used | H | W | D | MW | MD | Lbs. | | |
| С | N-90MD | 250 | 115 | 115.0 | 2.17 | M (3) | 6' Cord, Plug & Socket Circuit Breaker | • | 45/8 | 37/8 | 61/8 | 3 | 415/16 | 11.9 | | |
| D | N-92MD | 500 | 115 | 115.0 | 4.35 | M (4) | 6' Cord, Plug & Socket Circuit Breaker | • | 511/32 | 41/2 | 7 | 31/2 | 5¾s | 17.6 | | |

Mounting hole sizes: (3) = $\frac{3}{8} x \frac{3}{16}$ " (4) = $\frac{21}{32} x \frac{9}{32}$ "

Leakage current from primary to secondary is rated at less than 50 micro-amps and is typically measured at less than 10 micro-amps.