

# Power Isolation Transformers

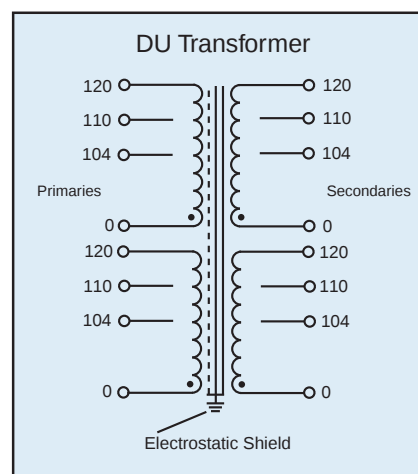
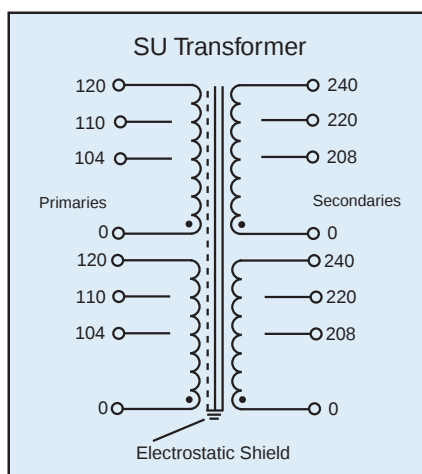
## Industrial Grade Step-Up or Step-Down Transformers



Signal's DU and SU transformers have been designed to provide a multitude of step-up or step-down voltages to accommodate various input voltages available throughout the world.

### General Specifications

- Power - 250 VA to 10 KVA (500 VA to 20 KVA possible if used as auto-transformer)
- Dielectric Strength - 2500 Vrms Hipot
- Primaries - Dual/tapped primaries: Parallel connected (104V, 110V, 120V - 50-500 Hz)  
Series connected (208V, 220V, 230V, 240V)
- Secondaries - Dual/tapped secondaries:  
DU Series - Parallel connected (104V, 110V, 120V - 50-500 Hz)  
Series connected (208V, 220V, 230V, 240V - 50-500 Hz)  
SU Series - Parallel connected (208V, 220V, 240V - 50-500 Hz)  
Series connected (416V, 440V, 460V, 480V - 50-500 Hz)
- Electrostatic Shield - Solid copper foil connected to ground. The connection may be opened if an un-grounded shield is desired.
- Terminals - Plated brass screw-type terminals
- Insulation System - Class B, 130° C
- Higher insulation classes available



As shown on the schematic diagram the DU line incorporates dual primaries and secondaries. All four windings are identically rated at 0/104/110/120V. This permits series or parallel connections on either primary or secondary. Therefore, a nominal 110V to 110V, 220V to 220V, 110V to 220V, or 220V to 110V transformer can be configured. The winding tap permits intermediate series ratings such as 208V, 214V, or 230V. It is also possible to make auto-transformer connections by connecting a primary group in series with a secondary group. Such nominal ratings as 440V to 220V or 220V to 440V can be configured in addition to the standard ratings described above. A further advantage to auto-transformer connection is the fact that the KVA rating of a particular type is doubled.

| Part Number | KVA | Series Secondaries |          | Parallel Secondaries |          |
|-------------|-----|--------------------|----------|----------------------|----------|
|             |     | Volts              | Max Amps | Volts                | Max Amps |
| DU-1/4      | 1/4 | 0/208/220/240      | 1.1      | 0/104/110/120        | 2.2      |
| DU-1/2      | 1/2 | 0/208/220/240      | 2.3      | 0/104/110/120        | 4.6      |
| DU-1        | 1   | 0/208/220/240      | 4.5      | 0/104/110/120        | 9        |
| DU-2        | 2   | 0/208/220/240      | 9        | 0/104/110/120        | 18       |
| DU-3        | 3   | 0/208/220/240      | 14       | 0/104/110/120        | 28       |
| DU-5        | 5   | 0/208/220/240      | 23       | 0/104/110/120        | 46       |
| DU-7.5      | 7.5 | 0/208/220/240      | 31       | 0/104/110/120        | 62       |
| DU-10       | 10  | 0/208/220/240      | 41       | 0/104/110/120        | 82       |

| Part Number | KVA | Series Secondaries |          | Parallel Secondaries |          |
|-------------|-----|--------------------|----------|----------------------|----------|
|             |     | Volts              | Max Amps | Volts                | Max Amps |
| SU-1/4      | 1/4 | 0/416/440/480      | 0.55     | 0/208/220/240        | 1.1      |
| SU-1/2      | 1/2 | 0/416/440/480      | 1.15     | 0/208/220/240        | 2.3      |
| SU-1        | 1   | 0/416/440/480      | 2.25     | 0/208/220/240        | 4.5      |
| SU-2        | 2   | 0/416/440/480      | 4.5      | 0/208/220/240        | 9        |
| SU-3        | 3   | 0/416/440/480      | 7        | 0/208/220/240        | 14       |
| SU-5        | 5   | 0/416/440/480      | 11.5     | 0/208/220/240        | 23       |
| SU-7.5      | 7.5 | 0/416/440/480      | 15.5     | 0/208/220/240        | 31       |
| SU-10       | 10  | 0/416/440/480      | 20.5     | 0/208/220/240        | 41       |

Custom versions available upon request.

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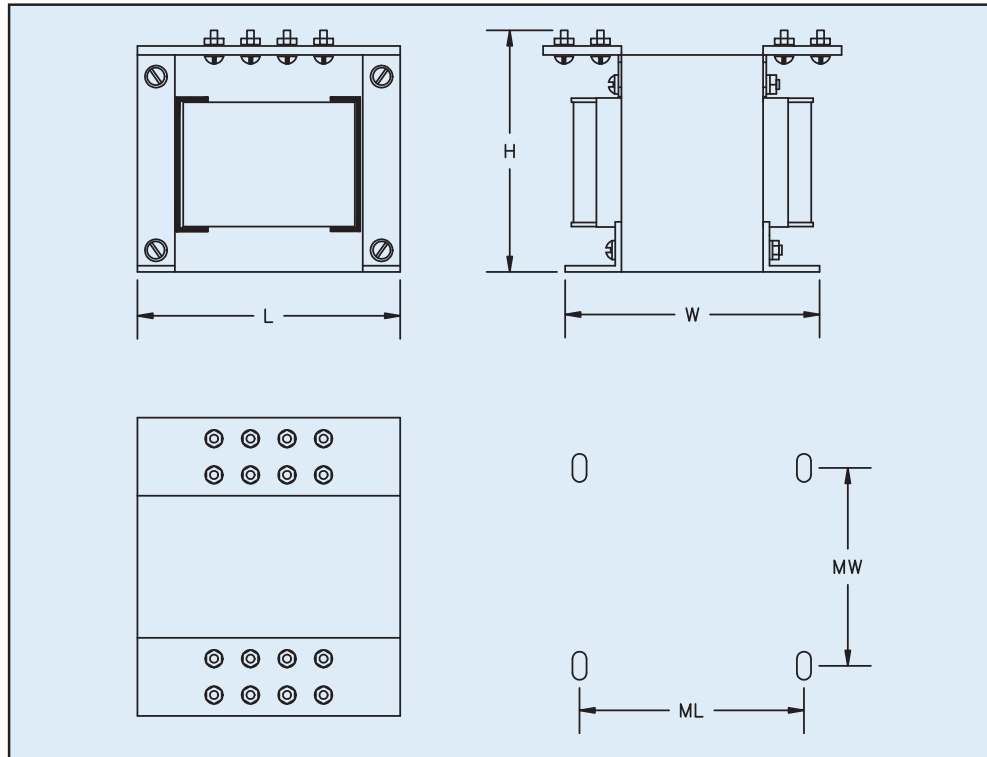


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Industrial Grade Step-Up or Step-Down Transformers



| Part Number |        | Dimensions      |                  |                 |                 |                 | Mtg. & Term.<br>Screw | Weight         |
|-------------|--------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------------|----------------|
|             |        | L*              | W*               | H*              | ML†             | MW‡             |                       | lbs (kg)       |
|             |        | Inches (mm)     |                  |                 |                 |                 |                       |                |
| DU-1/4      | SU-1/4 | 5.31<br>(134.9) | 4.25<br>(107.9)  | 5.25<br>(133.4) | 4.37<br>(111.1) | 2.50<br>(63.5)  | #10                   | 12<br>(5.44)   |
| DU-1/2      | SU-1/2 | 5.31<br>(134.9) | 5.31<br>(134.9)  | 5.25<br>(133.4) | 4.37<br>(111.1) | 3.62<br>(92.1)  | #10                   | 18<br>(8.16)   |
| DU-1        | SU-1   | 7.56<br>(192.1) | 6.25<br>(158.8)  | 7.37<br>(187.3) | 6.75<br>(171.5) | 4.12<br>(104.8) | 1/4                   | 33<br>(14.97)  |
| DU-2        | SU-2   | 7.56<br>(192.1) | 8.25<br>(209.6)  | 7.37<br>(187.3) | 6.75<br>(171.5) | 6.00<br>(152.4) | 1/4                   | 56<br>(25.40)  |
| DU-3        | SU-3   | 7.56<br>(192.1) | 9.25<br>(234.9)  | 7.37<br>(187.3) | 6.75<br>(171.5) | 7.00<br>(177.8) | 1/4                   | 70<br>(31.75)  |
| DU-5        | SU-5   | 7.56<br>(192.1) | 10.75<br>(273.1) | 7.37<br>(187.3) | 6.75<br>(171.5) | 8.50<br>(215.9) | 1/4                   | 89<br>(40.37)  |
| DU-7.5      | SU-7.5 | 9.00<br>(228.6) | 10.75<br>(273.1) | 8.00<br>(203.2) | 7.50<br>(190.5) | 6.50<br>(165.1) | 1/4                   | 105<br>(47.63) |
| DU-10       | SU-10  | 9.00<br>(228.6) | 13.00<br>(330.2) | 8.00<br>(203.2) | 7.50<br>(190.5) | 9.00<br>(228.6) | 1/4                   | 150<br>(68.04) |

\*Maximum

† ± 0.06 (1.6mm)

‡ ± 0.12 (3.2mm)

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