



## Model AT100 100 Watt Autotransformer

### SPECIFICATIONS

#### Usable Frequency Response:

20-20,000 Hz

#### Long-Term Average Power Capacity:

100 watts

#### Environmental Treatment:

Vacuum impregnated with transformer varnish

#### Size and Mounting Centers:

See diagram above

#### Shipping Weight:

2.7 kg (6 lb)

### DESCRIPTION

The Electro-Voice AT100 is a wide-range audio autotransformer designed for use in high-quality distributed sound systems or for other impedance matching purposes where line losses need to be minimized. Where dc isolation between windings is not required, the autotransformer approach provides lower insertion loss than the typical dual winding transformer due to tighter magnetic coupling and lower coil resistance.

Although nominally rated at 100 watts, the AT100 is capable of operation at peak levels with low distortion far in excess of 100 watts due to its massive core and hefty construction.

Proper hook-up of the autotransformer can be made by noting the schematic diagram above. As an example of using the AT100 as a step-down transformer, a 100-watt 8-ohm speaker may be matched to a 70.7-volt line by connecting the yellow and black wires to the line and the speaker to the red and black wires.

The autotransformer may also be used as a step-up transformer. As an example, an amplifier capable of delivering a maximum power of 100 watts into 4 ohms, but not having a 70.7 volts output tap, may be connected to the brown and black leads. Full power output will then produce 70.7 volts across the yellow and black leads. Other AT100's or line matching transformers may then be used to match this line to the various speakers (loads).

### 100-VOLT OPERATING LIMITATIONS

For 100-volt operation, the 50- and 70.7-ohm terminals correspond to 200 and 141 watts respectively. Amplifiers with these 100-volt power outputs may be used, **as long as the long-term average power delivered by the amplifier does not exceed the 100-watt rating of the AT100.** Because of the peak-to-average ratio of typical program material, this condition is automatically met if clipping of program peaks is generally avoided.

### WARRANTY (Limited)

Electro-Voice Speakers and Speaker Systems (excluding active electronics) are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not extend to finish, appearance items, burned coils, or malfunction due to abuse or operation under other than specified conditions, including cone and/or coil damage resulting from improperly designed enclosures, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee. A list of authorized warranty service agencies is available from Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831); or Electro-Voice West, 8234 Doe Avenue, Visalia, CA 93291 (AC/209-651-7777). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107.

Specifications subject to change without notice.



**ELECTRO-VOICE, INC., 600 Cecil Street, Buchanan, Michigan 49107**

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