

AT300 300-Watt Autoformer

- Convenient impedance and voltage conversion
- Taps chosen for frequently encountered speaker loads: 4, 8 and 16 ohms, plus 2.67 ohms (three paralleled 8-ohm speakers) and 5.33 ohms (three paralleled 16-ohm speakers)
- Autoformer format (without primary-to-secondary isolation) provides lower insertion loss due to tighter magnetic coupling and lower coil resistance

SPECIFICATIONS

Output Power:

300 watts

Frequency Response at Rated Output:

35-15,000 Hz, ±1 dB

Total Harmonic Distortion at Rated Output:

<1%

Dimensions (see Figure 1),

Height:

105 mm (4.13 in.)

Width:

88 mm (3.45 in.)

Depth:

97 mm (3.81 in.)

Net Weight:

3.8 kg (8.4 lb)

Shipping Weight:

4.0 kg (8.9 lb)

DESCRIPTION

The Electro-Voice AT300 autoformer is designed to provide maximum flexibility in matching a wide variety of loudspeaker loads to power amplifier outputs.

APPLICATIONS

The AT300 autoformer consists of a single winding with multiple taps. It is intended to provide impedance and voltage conversions without primary-to-secondary isolation.

Any combination of taps may be used as the primary (source) and secondary (load) connections.

Figure 2 shows the layout of taps and their voltage and impedance ratios relative to the common terminal.

The transformer wires are color-coded and are identified on the body of the autoformer with the impedances that would most commonly be

connected. The 16-, 8- and 4-ohm taps are the most common loudspeaker impedances. The 5.33-ohm tap is for three 16-ohm speakers connected in parallel and the 2.67-ohm tap is for three 8-ohm loudspeakers in parallel.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The AT300 300-watt autoformer shall consist of a single winding with multiple taps, which provides impedance and voltage conversions with-

FIGURE 1 — AT300 Dimensions

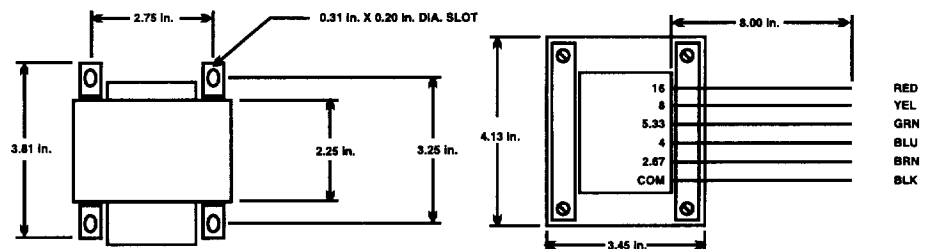


FIGURE 2 — AT300 Tap Layout, Voltage and Impedance Ratios

TAP	NO.	IMPEDANCE (OHMS)	VOLTAGE RATIO	IMPEDANCE RATIO
RED	6	16	1.0	1.0
YEL	5	8	0.707	0.5
GRN	4	5.33	0.58	0.33
BLU	3	4	0.5	0.25
BRN	2	2.67	0.41	0.167
BLK	1	COMMON		

out primary-to-secondary isolation. The autoformer shall have a frequency response of 35-15,000 Hz (± 1 dB). Total harmonic distortion at 35-15,000 Hz shall be less than 1%. Dimensions of the autoformer shall be 105 mm (4.13 in.) high, 88 mm (3.45 in.) wide, and 97 mm (3.81 in.) deep. The net weight shall be 3.8 kg (8.4 lb). The shipping weight shall be 4.0 kg (8.9 lb).

UNIFORM LIMITED WARRANTY

Electro-Voice products are guaranteed against malfunction due to defects in materials or workmanship for a specified period, as noted in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual, beginning with the date of original purchase. If such malfunction occurs during the specified period, the product will be repaired or replaced (at our option) without charge. The product will be returned to the customer prepaid. **Exclusions and Limitations:** The Limited Warranty does not apply to: (a) exterior finish or appearance; (b) certain specific items

described in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual; (c) malfunction resulting from use or operation of the product other than as specified in the product data sheet or owner's manual; (d) malfunction resulting from misuse or abuse of the product; or (e) malfunction occurring at any time after repairs have been made to the product by anyone other than Electro-Voice or any of its authorized service representatives. **Obtaining Warranty**

Service: To obtain warranty service, a customer must deliver the product, prepaid, to Electro-Voice or any of its authorized service representatives together with proof of purchase of the product in the form of a bill of sale or receipted invoice. A list of authorized service representatives is available from Electro-Voice at 600 Cecil Street, Buchanan, MI 49107 (616/695-6831 or 800/234-6831). **Incidental and Consequential Damages Excluded:** Product repair or replacement and return to the customer are the only remedies provided to the

customer. Electro-Voice shall not be liable for any incidental or consequential damages including, without limitation, injury to persons or property or loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. **Other Rights:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Electro-Voice Accessories are guaranteed against malfunction due to defects in materials or workmanship for a period of one (1) year from the date of original purchase. Additional details are included in the Uniform Limited Warranty statement.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (616/695-6831 or 800/234-6831).

Specifications subject to change without notice.

