

1569A Power Amplifier

1569A



- Underwriters approved
- Low power consumption
- Inputs and outputs may be safely paralleled
- 70V and 25V outputs
- Low cost per watt
- High and low impedance inputs
- Built-in speaker protection
- Low installation costs
- Full 80 watt output
- Simplified installation

The 1569A power amplifier will provide 80 watts of power with great stability under conditions of varying line voltage, changing tube characteristics and long unloaded speaker lines of high capacitance. This amplifier is part of the "Building Block 1500 Series" which provide fully integrated public address facilities.

The straight-forward circuitry of the amplifier provides unusual reliability. It is possible for as many as three power tubes and one rectifier tube to fail without removing the amplifier from service. It will withstand "hot switching" and other punishment which the amplifier may be given by non-technical operators.

Installation costs have been materially reduced since all input and output connections are made to simple barrier-type terminal blocks on the rear of the chassis and the amplifier contains a pre-wired three conductor power cord. For reduced system cost, the amplifier contains a low frequency cut-off which will provide from 0 to 22 db of attenuation at 250 cycles for the protection of driver type loudspeakers.

Two inputs are provided, one for unbalanced low or high impedance lines with a minimum of 0.9 volt signal strength, and one which connects to the accessory Altec 15095 plug-in line transformer for isolation from balanced lines of 150 or 600 ohms. These two inputs can be used simultaneously for greater facility.

The amplifier will accommodate output loads of 4, 8, 16 and 62 ohms; the corresponding output voltages being 18, 25, 36 and 70 volts. The great stability of the circuit makes it possible for two of these amplifiers to be paralleled both at input and output.

The 1569A amplifier can be mounted in either the standard Relay Rack or in a standard wall or table type cabinet. When used with associated components of sufficient quality to realize its full potentialities, the 1569A is ideal for higher powered public address, paging, music distribution and sound reinforcement systems.



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ALTEC 1569A

SPECIFICATIONS

Gain:	68 db
Input Sensitivity:	0.9 volts
Power Output:	80 watts at less than 2% thd 60-20,000 cps 80 watts at less than 5% thd 40-20,000 cps
Frequency Response:	± 1 db 5-30,000 cps, ± 5 db 1-100,000 cps
Input Impedance:	70,000 ohm potentiometer
Source Impedance:	150 or 600 ohms with 15095 plug-in transformer
Load Impedance:	4 (18 V), 8 (25 V), 16 (36 V), 62 (70 V) ohms ungrounded
Output Impedance:	Less than 15% of nominal load impedance
Noise Level:	80 db below rated output
Controls:	Volume control, continuously variable, composition
Power Supply:	117 volts, 60 cps, 240 watts
External Power Available:	117 volt AC receptacle on chassis
Tubes:	Two 6CG7, four 6CA7/EL34, two 5U4GB
Dimensions:	8 $\frac{3}{4}$ " H, 19" W, 8" D
Color:	Green
Weight:	27.5 lbs.
Special Features:	For 1500 series applications. This amplifier has a two-stage built-in Hi-Pass filter.

ACCESSORIES

15095 Plug-in Line Transformer.

See Amplifier Accessories sheet for relay racks, mounting cabinets, and other amplifier accessories.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The power amplifier shall be of the rack mounting type measuring not more than 8 $\frac{3}{4}$ " H, 19" W, and 9" D. The amplifier shall include a continuously variable volume control of the composition type on the front panel, together with pilot light, fuse holder, and on-off switch. The front mat shall be hinged for easy access to the front portion of the amplifier for maintenance. Any amplifier utilizing a common "radio type" volume control and not including these features shall not be acceptable under these specifications.

The power output shall be 80 watts with less than 2% total harmonic distortion over the frequency range of 60 to 20,000 cycles, and 80 watts with less than 5% total harmonic distortion over the frequency range of 40 to 20,000 cycles. The frequency response shall be ± 1 db 5 to 30,000 cycles, or ± 5 db 1 to 100,000 cycles. The noise level shall be 80 db below rated output. The overall gain of the amplifier shall be no less than 68 db. The output impedance shall be less than 15% of nominal load impedance. The load impedance shall be 4 (18 v), 8 (25 v), 16 (36 v), 62 (70 v) ohms ungrounded. The input sensitivity shall be .9 volts rms for rated output. The input impedance shall be 70,000 ohm volume control, and the source impedance 150 or 600 ohms with 15095 plug-in transformer. The amplifier shall utilize a low-frequency cutoff, providing from 0 to 22 db of attenuation at 250 cycles for the protection of driver loudspeakers. The amplifier shall operate from 117 v 60 cycles and shall not draw more than 240 watts from the primary circuit. The tube complement shall consist of two 6CG7, four 6CA7/EL34, two 5U4GB. The unit shall be finished in green and shall weigh in the order of 27.5 pounds.

Negative feedback must be derived from a tertiary winding in the output transformer. Amplifiers employing grounded outputs or other means of feedback will not be acceptable.

The amplifier shall be Altec Lansing Model 1569A.

NOTICE
We recommend that you obtain your Altec products from factory trained personnel. For more information, contact Altec Lansing, Inc., for a list of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.