



audio research

HIGH DEFINITION™
D-100A POWER AMPLIFIER

OUTPUT SUPPLY FUSES
6 AMP
TYPE MTH
CHANNEL 1

OUTPUT SUPPLY FUSES
6 AMP
TYPE MTH
CHANNEL 2



CHANNEL 1
6 AMP
TYPE MTH
OUTPUT SUPPLY FUSES

HIGH DEFINITION™
D-100A POWER AMPLIFIER

CHANNEL 2
6 AMP
TYPE MTH
OUTPUT SUPPLY FUSES

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D-100A HIGH DEFINITION™ POWER AMPLIFIER

The D-100A is a linear two-channel power amplifier of extremely high quality construction designed for the amplification of speech and music. It represents second generation advancement of Audio Research's Analog Module™ technology, and is intended for use in high quality music reproducing systems.

Analog Modules provide the voltage gain and buffering in the D-100A. Current gain (needed to drive the loudspeaker) is provided by a unique, linear output circuit. (The static distortion measurement of this output stage is typically only .2% THD without corrective negative feedback in the midband.)

The D-100A output circuit will drive any inductive or capacitive load with stability and reliability. And, it accomplishes this without resorting to "protective" circuitry with their normally sound-degrading characteristics. It can even withstand accidental shorted loads reliably! Line voltage for optimum performance is not critical. The output stage is self-biasing. No biasing or balance adjustments are used (or needed). Sonic performance does not change with time or temperature. The list of advantages is impressive, all part of an elegant and straight-forward design.

There is, however, a price to pay for Audio Research performance and construction. No manufacturer can offer the highest sound quality, construction quality, and power at a low price. A cer-

tain amount of "over-engineering" is required to achieve the performance of the D-100A. For example, a total of 32 carefully matched high power devices, tightly coupled to a special heat sink arrangement, is required in the driver and output circuit. The power supply incorporates a 500 watt transformer, 75 joules of energy storage, and a separately regulated voltage supply for the input circuitry. And, as always with Audio Research products, the packaging and component quality has been executed to the highest commercial standards. The D-100A adds up to a deliberately "over-engineered" product, which means it costs a little more.

For further discussion of performance and use requirements, please see your Audio Research dealer. Audio Research™ High Definition™ music reproducing products are sold throughout much of the free world by a network of select audio specialists. Audio Research dealers can be identified by the following decal:



*Note: The decal must show the current year.

FEATURES

- All solid state featuring Audio Research's Analog Module™ technology and unique linear output circuitry.
- Built-in switch (internally located) for "bridged" monaural mode operation. (Provides approximately 360 watts into 8 ohms.)

- Front panel power supply fuses for easy access.
- Front and rear panels are two-color anodized aluminum for permanent finish and lettering.
- Industrial grade components and construction for long service life. Rated for continuous commercial service.

SPECIFICATIONS:

Power Output: 100 watts per channel minimum RMS (both channels operating) at 8 ohms from 1Hz to 20 kHz with less than .25% total harmonic distortion.

- Typically less than .02% at rated power in midband.
 - Approximate actual power available per channel at "clipping" (both ch. op.).
- | | | |
|--------|--------|---------|
| 4 ohms | 8 ohms | 16 ohms |
| 200 | 110 | 65 |

Intermodulation Distortion:

Less than .1% at rated output (80v p to p) and load (SMPTE method).

Input Sensitivity:

1.5 volts RMS for rated power and load.

Input Impedance:

30k ohms (nominal).

Damping Factor:

More than 200 at rated power and load (20 Hz to 20 kHz).

Noise:

Wide-band, unweighted, more than 100 dB below 100 watts at 8 ohms — power line components (hum) more than 90 dB below 100 watts at 8 ohms. (Less than 50 uV equivalent input noise with inputs shorted).

Power Requirements:

105-120/210-240 VAC, 50/60 Hz, 1000 watts maximum.
160 watts at "idle."
450 watts at rated power.

Dimensions:

19" (48 cm) W x 5¼" (13 cm) H (standard rack mount panel size) x 10½" (26.7 cm) D (front panel back). Handles extend 1½" (3.8 cm) forward of the front panel.

Weight:

42 lbs (19 kg) net, 48 lbs (22 kg) shipping.

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2843-26th AVE. SO.
MINNEAPOLIS, MINN. 55406

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