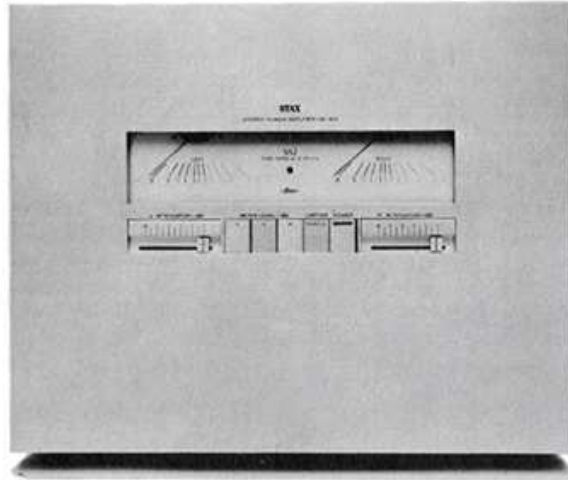


# STAX power amplifiers / Class A DC

## DA-300



• It is well known that the human ear can discern finer differences in amplifier performance than any measurement instrument. And it has been found that the trained ear can detect levels of distortion less than 0.05%. This is important for amplifier design in terms of the means used to prevent or eliminate distortion. Many amplifier designers have depended on negative feedback to cover up distortion inevitably produced by the amplifier circuitry. But there are real limits to the effectiveness of this approach. At Stax, our goal has been to design amplifiers that produce minimum distortion to begin with, and then use a small amount of negative feedback to reduce distortion even further. In fact, our class A power amplifiers (we make no class B or AB amplifiers) have less open loop (pre NFB) distortion than AB amplifiers. Furthermore these amps are true DC units having no low-range time constants and consequent phase shift; signal-to-noise ratio is excellent, frequency response is extremely wide, and the signal delivered to your speaker systems is an impeccable replica of the original input signal.

For added dependability and operational convenience, we have employed dual FETs in the input stage to prevent drift, and we have set the input impedance at  $100k\Omega$  for better preamp output impedance matching. Extremely stable performance is assured with any 2ohm or more speaker load regardless of reactances encountered. The power limiter switch lets you cut power consumption to 1/4 that of peak output when listening at low volume levels. The power switch can be operated by remote control. Naturally, there is complete protection circuitry including speaker protection, short circuit and overload protection, and output transistor overheating protection to assure complete safety under all conditions. And thanks to the rational chassis layout, this 150W x 2 class A amplifier is surprisingly compact.

While the specifications speak for themselves – 150W + 150W, both channels driven into 8ohms, from 20Hz to 20kHz, with no more than 0.025% THD – more important is the exactingly pure musical reproduction that lets you completely forget about the presence of any electronic circuitry.

## DA-80



• The differences between Stax DA-series power amplifiers is in their output power ratings. The basic circuitry is exactly the same. Therefore, the DA-80 is ideal for driving highly efficient speaker systems with its 45W x 2 power rating, without any difference in sound quality from the DA-300 or DA-80M. Since this is a true class A amplifier, it is theoretically and practically completely free from crossover distortion, notching distortion, and switching distortion. The lack of such distortion contributes directly to reproduced sound quality, and this fact is becoming recognised as shown by the appearance of many new class A amplifiers on the market. Unfortunately, there are many imitation class A amplifiers also, so care must be taken when choosing new models.

The DA-80 (and other DA-series amplifiers) is a true class-A amplifier with uncompromising features such as protection circuitry that does not employ any relay in the signal circuitry. Although this is a stereo amplifier, it is built as two separate mono amplifiers to prevent any crosstalk and assure perfect stereo imaging and 3-dimensional depth reproduction. Everything, including the power supplies, is completely separate for the left and right stereo channels. All circuit components and other parts are strictly selected after extensive hearing tests and performance tests. Unbelievably large chemical capacitors are employed in the power supply: Four  $6,800\mu F$  units are used for the predriver stage and four  $33,000\mu F$  units for the output stage to give plenty of headroom for peak transient handling.

This amp is also recommended for multi-amp systems. Use the DA-300 and/or DA-80M for driving woofers and midrange; use the DA-80 for the tweeters (or tweeters and midrange). With such a configuration you will enjoy perfect sound quality matching and superb musical reproduction.