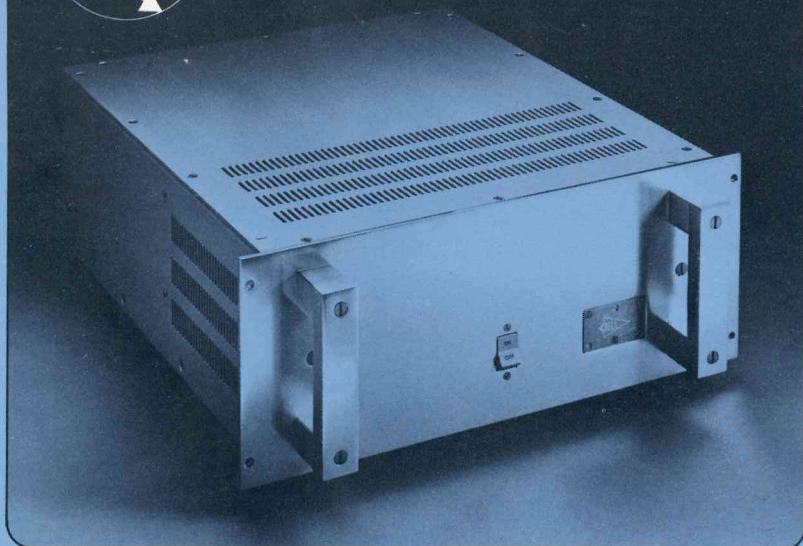




KRELL
CLASS A

100 WATTS



Many centuries ago, so it is said, there lived a race of people somewhere in the Western hemisphere that were far advanced from their peers. Like the Incas or Atlantis fact has intermingled with fiction and no clear picture is known of who and what they were. All that remains today is some popularized mythology and a few artifacts. This civilization was supposed to possess unlimited power and the ability to materialize out of their own id. From this small historical remnant we take our inspiration and name: **KRELL**.

□ **UNLIMITED POWER** □

Power is the most salient characteristic of an amplifier, the accuracy of which is critical to the translation of musical information. The history and current state of the art of audio equipment has one basic underlying flaw: compromise. To price, to size, to practicality. But the real compromise is the end result: the music.

The Krell power amplifier is built on a premise of no compromise. We will not alter our standards or goals to make it more convenient for manufacturer.

□ **ONLY CLASS A AMPLIFIER AT FULL RATED POWER** □

We did not compromise our Class A configuration. Of all the Class A amplifiers in today's market *regardless of price* the Krell power amplifier is the only one that delivers pure Class A up to its fully rated power. All the others compromise by switching to the AB mode when they reach from 35% to 60% of their rated power. That means when real demand is made on the amplifier everyone else eventually switches to an AB mode *before* their rated output.

□ **HEAT DISSIPATION** □

The Class A configuration produces heat. A lot of it. Using heat sinks for heat transfer would have doubled the size of the amplifier and any change in circuitry would have compromised the quality of sound. We choose two of the world's most expensive fans and then ran them inaudibly at near idle. This created the



correct cooling efficiency when the amplifier was at idle (it runs cooler when active).

□ POWER SUPPLY □

Two discrete power supplies are used; one per channel with no interconnective ground. The only element each channel shares is a common line cord. Computer grade electrolytics (80,000 microfarads) are used as well as fast recovery type rectifiers. The amplifier houses two 9 amp transformers.

□ PROTECTION CIRCUITRY □

Krell uses no protection circuitry as all such devices regardless of sophistication add coloration. Krell instead uses rail fuses and in the event of failure thermal protection is employed which will shut the unit down in case of excess heat.

As the devices operate well within their capabilities they should never be called on beyond this area. The highest grade military devices are used in the Krell amplifier and each is individually tested and matched.

□ DESIGN APPROACH □

The Krell amplifier is the result of our goal to create a musical event more accurate than any other. To accomplish this we threw out any major areas of compromise. This initially dictated Class A circuitry. Only the Class A configuration can give the instantaneous current waveform delivery desired. The current and voltage waveform in true Class A topology remains the same throughout the amplifier operation.

The Krell uses a pure complimentary design with mirrored imaged pairs on the output stage, very low feedback (less than 15 dB of negative feedback) resulting in exemplary transient response, low T.I.M., low phase shift and high transient waveform accuracy. The design philosophy is one of a minimal amount of signal processing with instantaneous current delivery that only Class A can give you, producing extremely high current slew characteristics and a high degree of signal integrity.

□ SPECIFICATIONS □

Power:	per channel, both channels driven: into 8 ohms 100 watts into 4 ohms 217 watts into 2 ohms 380 watts
Slew:	80 volts per microsecond
S/N Ratio:	-120 dB
Distortion	Harmonic: 0.1% at full power, 20 Hz to 20 kHz IM: 0.1% at full power with any frequency combination
Sensitivity:	1 V in for full output
Input Impedance:	22 K ohms
Dampening:	Greater than 100 from 20 Hz to 20 kHz
Protection:	Thermal: rail fuses and speaker fuses
Shipping Weight:	100 lbs.
Warranty:	3 years limited and transferable

Krell steel goes through 80 different operations until it reaches its final destiny as a Krell amplifier

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