

KRELL

THE LEADER IN AUDIO ENGINEERING

FPB series Krell Power Amplifiers

*Substantial power
and precise control
for the most
demanding
listeners*



F U L L P O W E R B A L A N C E D A M P L I F I E R S

KRELL



Dan D'Agostino, CEO
and Chief Engineer

A TRADITION OF EXCELLENCE

In the legendary movie Forbidden Planet, the Krell was an ancient race blessed with extraordinary technical ability. So it was but a natural progression from that, the Krell of fiction, to today's Krell of science.

Indeed, Krell stretched the imagination of aficionado and competitor alike in 1980 with its groundbreaking KSA-100 stereo power amplifier. Combining for the first time the authority and impact of high power and high current operation with the revealing delicacy of Class A circuit design, the KSA-100 opened the ears of the audio community to a new level of listening pleasure.

Since that auspicious beginning, Krell has been single-minded in its determination to offer only the finest components in the service of sound.

the leader in audio engine

OBSESSION AND ITS REWARDS



Obsession with extraordinary sound quality has its rewards. In the rarified atmosphere of international competition, Krell products have earned numerous accolades, among them Japan's coveted Component of the Year award, the Innovations Design and Engineering award (U.S.) and the EISA European High-End Audio Product of the Year.

WHERE ENGINEERING
MEETS INSPIRATION

Power is a vital key to accurate sound reproduction. But power alone provides but a translucent window: It often dulls our aural perception. For true transparency – the exciting immediacy that conveys both the shudder and the shimmer of today's best sources – power and finesse must go hand in hand.

The FPB amplifiers respond to this challenge with a unique and potent array of highly refined technologies. True balanced signal paths from input to output guarantee virtual immunity from noise as they enhance speaker control. Class A operation provides sound gloriously free of switching transients while the Krell patented Sustained Plateau Bias II circuitry avoids the heat and inefficiencies of less sophisticated implementations. CAST, a radical and illuminative revision of the system-amplifier interface, eliminates cable variations that can adversely affect sound.

Thus, every amplifier in the FPB Series provides absolute and unwavering control.

GENIUS IN THE
DETAILS

The FPB 600c you see above is a benchmark product, a rigorous exploration of science raised to the level of art. In both concept and execution, it is the finest expression of the skills of master craftsmen, the result of unwavering, focused determination that electronic circuits will impose no sonic penalty while conveying a recorded event to our ears.

It is not alone.

Every Full Power Balanced amplifier enjoys the same hereditary advantage from faceplate to binding posts, from military-grade circuit

erling

boards to the carefully machined finish. Both internal and external detailing radiates an aura of refined authority that is uniquely Krell.

Although you may indeed choose one of the FPB Series as ideally suited to your needs, rest assured that each is supremely capable. That is as it should be. After all, each is a Krell.

The Master Reference Amplifier —
the inspiration for the
FPB Series.

FPB SERIES

PERFECT FLEXIBILITY

If Full Power Balanced amplifiers stand as an extraordinary moment in the evolution of high fidelity, they also stand as a remarkable example of flexibility. Six amplifiers, three monaural and three stereo, allow precise system configuration to meet any need.

Three FPB monaural models, available in symmetrical pairs ideal for placement close to any loudspeaker, range in output from 250 to 650 Watts each. The three stereo amplifiers provide power ranging from 200 to 600 watts per channel. Within this diversity, however, exists a single standard of performance – the Krell standard. All FPB amplifiers – and, for that matter, every Krell – benefit from a myriad of refinements in circuitry, cosmetic and chassis design, assembly, and testing. It is not enough, for example, that Krell uses even the finest commercially available devices. Instead, Krell proprietary power transistors are purpose-built to extraordinary standards. It is precisely this attention to details both significant and minor that distinguishes a Krell.



Startlingly authoritative yet

aesthetically refined, the

appearance of every FPB

amplifier merely suggests

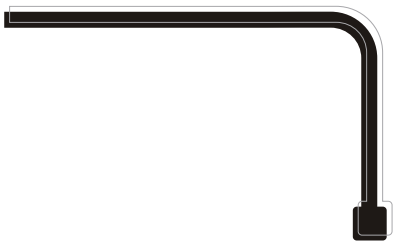
how well it fulfills its real

purpose – to dissolve the

barriers between a previously

recorded event and your

emotional response to it.



KRELLCAST TECHNOLOGY

CAST, or Current Audio Signal Transmission, solves two of the most pervasive and difficult problems encountered in configuring and connecting an audio or audio/video system.

The first difficulty lies in the nature of the connection between a system's front end – the preamplifier and all the source components feeding it – and the power amplifier(s). Here, basic impedance matching is never a simple phenomenon. A prime culprit is the cable connecting preamplifier and power amplifier. Indeed, a cable's influence can be so profound that it becomes a tone control – sometimes very subtle – instead of a simple path for a musical signal.

The second, and admittedly derivative, problem is the length of cable between front end and amplifier. Although longer cables have practical advantages – they allow placing front ends closer to users and amplifiers closer to loudspeakers – they often degrade system performance as their greater reactive effects have greater impact on sound quality.

CAST alleviates both concerns.

Deceptively simple in concept, CAST reverses conventional wisdom that says voltage transfer from source to load demands that a preamplifier's output be low impedance and that the power amplifier's input be high. Unfortunately, this combination places a large burden on the connecting cable in that its impedance will alter or distort the signal voltage operating the amplifier.

In contrast, CAST transfers current rather than voltage from a high impedance source to a low impedance load. In doing so, a cable's effect is minimized – if not totally eliminated – as its impedance characteristic becomes but a minute portion of the total interface.

CAST results in far simpler – and far more accurate – signal transfer. It unveils musical subtleties as it immunizes a system against cable-induced variables.



HEAT

Krell developed HEAT, High End Audio

Theater, to satisfy all

who share Dan D'Agostino's conviction that the synthesis of audio and video can heighten our enjoyment of both.

HEAT is an integrated home theater system consisting of a state-of-the-art Krell Surround Preamp/Processor and matching amplifiers that reproduce two-channel and multi-channel sources with audiophile sound quality.

HEAT's origin is the disarmingly – and, to some, disturbingly – simple realization that soundtracks are often more dynamically demanding than symphonies.

HEAT's practical realization is a system with staggering sonic synergy. It presents cinema sound with the same quality we expect of our finest music systems and is yet another demonstration of Krell's well-earned position as the Leader in Audio Engineering

Sustained Plateau Bias

The most linear, lowest distortion class of operation for an audio power amplifier is Class A bias, in which the full current needed for full power is continuously carried by the amplifier. Class A bias is by far the most desirable for performance, but conventional Class A amplifiers suffer from tremendous heat generation and excessive energy consumption.

Krell solved this dilemma. Using microprocessor technology, Krell's patented Sustained Plateau Bias II circuitry monitors both input signal levels and the impedance of the connected loudspeaker. Sustained Plateau Bias II adjusts bias to assure optimum Class A operation regardless of signal or load. It avoids anomalies inherent in rapid bias changes by selecting one of several plateaus. When conditions require a higher or lower plateau, bias remains set long enough so that sound quality is not affected.



FPB 650Mc

OUTPUT POWER
650W, 1300W, 2600W (8, 4, 2 Ω)

FREQUENCY RESPONSE
20 Hz - 20 kHz
+0 dB, -0.05 dB

POWER CONSUMPTION
Stand-by 42.5W
Idle 220W
Max. 6000W

TOTAL HARMONIC DISTORTION (THD)
1 kHz < 0.03%
20 kHz < 0.03%

SIGNAL TO NOISE RATIO
121 dB

DIMENSIONS & WEIGHT
12.7 x 10.3 x 26.5 in. /
32.3 x 26 x 67.4 cm (WHD)
140 lbs. / 63.5 kg



FPB 350Mc

OUTPUT POWER
350W, 700W, 1400W (8, 4, 2 Ω)

FREQUENCY RESPONSE
20 Hz - 20 kHz
+0 dB, -0.05 dB

POWER CONSUMPTION
Stand-by 37.5W
Idle 175W
Max. 1400W

TOTAL HARMONIC DISTORTION (THD)
1 kHz < 0.03%
20 kHz < 0.03%

SIGNAL TO NOISE RATIO
118 dB

DIMENSIONS & WEIGHT
12.7 x 10.3 x 21 in. /
32.3 x 26 x 53.4 cm (WHD)
98 lbs. / 44.5 kg



FPB 250Mc

OUTPUT POWER
250W, 500W, 1000W (8, 4, 2 Ω)

FREQUENCY RESPONSE
20 Hz - 20 kHz
+0 dB, -0.05 dB

POWER CONSUMPTION
Stand-by 30W
Idle 150W
Max. 1000W

TOTAL HARMONIC DISTORTION (THD)
1 kHz < 0.03%
20 kHz < 0.03%

SIGNAL TO NOISE RATIO
114 dB

DIMENSIONS & WEIGHT
12.7 x 10.3 x 18 in. /
32.3 x 26 x 45.8 cm (WHD)
68 lbs. / 31 kg



FPB 600c

OUTPUT POWER
600W, 1200W, 2400W (8, 4, 2 Ω)

FREQUENCY RESPONSE
20 Hz - 20 kHz
+0 dB, -0.05 dB

POWER CONSUMPTION
Stand-by 85W
Idle 430W
Max. 6000W

TOTAL HARMONIC DISTORTION (THD)
1 kHz < 0.02%
20 kHz < 0.15%

SIGNAL TO NOISE RATIO
120 dB

DIMENSIONS & WEIGHT
19 x 10.3 x 27.4 in. /
48.3 x 26 x 69.5 cm (WHD)
180 lbs. / 81.7 kg



FPB 300c

OUTPUT POWER
300W, 600W, 1200W (8, 4, 2 Ω)

FREQUENCY RESPONSE
20 Hz - 20 kHz
+0 dB, -0.05 dB

POWER CONSUMPTION
Stand-by 75W
Idle 350W
Max. 3000W

TOTAL HARMONIC DISTORTION (THD)
1 kHz < 0.02%
20 kHz < 0.15%

SIGNAL TO NOISE RATIO
117 dB

DIMENSIONS & WEIGHT
19 x 10.3 x 21.5 in. /
48.3 x 26 x 54.7 cm (WHD)
110 lbs. / 50 kg



FPB 200c

OUTPUT POWER
200W, 400W, 800W (8, 4, 2 Ω)

FREQUENCY RESPONSE
20 Hz - 20 kHz
+0 dB, -0.05 dB

POWER CONSUMPTION
Stand-by 60W
Idle 175W
Max. 1700W

TOTAL HARMONIC DISTORTION (THD)
1 kHz < 0.02%
20 kHz < 0.15%

SIGNAL TO NOISE RATIO
113 dB

DIMENSIONS & WEIGHT
19 x 10.3 x 18.7 in. /
48.3 x 26 x 47.5 cm (WHD)
90 lbs. / 41 kg



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