

AT LAST! AN AFFORDABLE SUPERAMP!



JL2 - TRIODE POWERHOUSE

The new JL2 stereo triode poweramp brings true superamp performance down to the affordable level. Using the same circuit design as the world famous JL1 monoblock superamp on a stereo platform yields a huge cost savings with minimal performance compromise. The JL2 even uses the advanced transformer winding technology in the \$50,000 "JL1 Limited Edition", coupled with some added advances unique to itself - like Teflon circuit boards!

Compare the JL2 with exotic low powered single ended tube amps which cost up to 10 times the price. The JL2 has a MORE vibrant, direct and pure sound than even the best of them - and the JL2 extends this realism down to the deepest bass and up to the highest treble. Combine this with 100Watts of "drive anything" triode power which out-muscles 300Watt pentode push-pull amps and transparency that is truly state of the art, and YES - we are talking about a true superamp. One which you can afford!

Convergent Audio Technology

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JL2 TRIODE STEREO AMPLIFIER

Philosophy is the most important aspect of any design. CAT's philosophy is to design our products to neither add to, nor detract from, the music. We never attempt to cover up a design problem with another problem, nor do we try to introduce a supposedly complementary problem to "synergise" with it. Two wrongs do not make a right. Only the eradication of the problem is correct.

The JL2 has been under development for over four years. We used a variety of loudspeakers during this refinement process including some which are well known for their ultra revealing nature and their difficulty to drive. The resulting amplifier is astounding in its robust dynamics and effortless power, actually sounding bigger and more powerful than amps with much higher power ratings. Yet it possesses a pure, natural character and clarity that surpasses the most refined low power amplifiers.

The innovative design of the power supply, audio circuitry, chassis construction and output transformer combine to produce an amplifier that will force you to re-evaluate your reference standards.

POWER SUPPLY

- The power transformer is encased in separate nickel plated steel housing to contain the magnetic field.
- The isolation transformer eliminates entry of AC power line noise into the amp, yielding greater benefits than add-on conditioners without any of their sonic drawbacks or expense.
- Slow Filament Power-Up extends tube life greatly.
- The Quadruple Cascaded Audio Power Supply uses time compensated zero feedback mosfets and vacuum tubes to deliver unequalled dynamic contrast, transparency and sound stage realism.

CIRCUITRY

- Pure Triode audio circuitry produces tonally natural music by eliminating the partition noise inherent in pentode designs and the resulting noise intermodulation ("grain").
- Low feedback (about 7dB) properly compensated design eliminates the tonal hardness of high feedback and/or improperly compensated designs while yielding more consistent sound quality.
- Ultra-wide open loop in-circuit bandwidth of the output transformer enables operation of the amp's closed loop response entirely within the open loop response, eliminating any requirement for the output stage to perform beyond its natural capability.
- Massive 27lb. output transformers allows the magnetics to operate at maximum linearity while still maintaining extremely low bass capability.
- Unprecedented stability into complex speaker loads.

CHASSIS

- The heavy steel chassis is reinforced with several welded beams for tremendous strength and elimination of low frequency vibration, yielding incredible bass solidity.
- Constrained damping layer on top plate silences vibration before it can be converted to electro-mechanical noise.
- The output transformers are enclosed within their own magnetically isolated housing which is lined with Birch plywood, one of the most musical woods, and potted in place with a combination of epoxy and elastomers for mechanical stability and control.
- Mechanical isolation from floor vibration provided by high loss viscoelastic feet.

CONVENIENCE

- Mirror polished stainless steel maintains luster and brilliance with minimal care.
- Single 10 turn master bias control per channel assures utmost sonic capability with minimum effort.
- Built in LCD meter.

QUALITY

- Exotic low loss aerospace circuit board material.
- CAT wire uses ultra pure dead soft annealed copper and super low loss insulation - seven times lower than TFE Teflon!
- CAT coupling capacitors reduce electromechanical noise to inaudible levels.
- Low loss core material has 92% less hysteresis loss than grain oriented silicon steel used in all other transformer coupled amplifiers, and almost 100 times greater linearity.

SPECIFICATIONS:

Power	100 Watts into 8 ohms - class A 100 Watts into 4 ohms - class A
Frequency Response:	1 Hz to 65 KHz (+0, -3dB)
Gain:	30.6dB (8 ohms)
Sensitivity:	835 mV AC for full power (8 ohms)
Noise:	90 dB below full power
Power Bandwidth:	20 Hz to 20 kHz
Damping Factor:	10
Dimensions:	27" x 18.5" x 10.5" (L:W:H)
Weight:	180 lbs. (82kg)

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