

Class A - stereo power amplifier

Element 260A

Pure class A power Amplifier . 2 x 60 Wrms into 8 ohm – bipolar output transistors in push-pull configuration with 16 devices per channel to ensure linear power of up to 1 ohm ultralow impedances - HDCA input stage for single-ended and balanced signals operation - innovative protections operated by microprocessor



Element 260A



pure class A

Power amplifier in pure class A of last generation - the input stage HDCA made with "ultra low noise" instrumentation components discrete completely for a 'high signal to noise ratio and signal paths to maintain perfectly balanced - Sanken output devices in configuration push-pull "massive" to obtain high-current loads of up to 1 Ohm – power supply oversized and made of state of the art.

All the musical sophistication of the class A was enclosed in this amplifier designed base on cutting-edge techniques and modern design. The philosophy Eam Lab of the great current of high power amplifiers in no exceptions even in this power amplifier 60 W "only". Each component and each stage have been oversized beyond all limits to ensure and always, in every situation, absolutely outstanding performance of music at any load condition. The performance data that double to halve the impedance are the result of a constant search for the ultimate performance and a maniac attention to the realization of the power stage equipped with the best materials. The filter bank with very low ESR at 100 Hz and two 900VA toroidal transformers with high efficiency and low induction partly explain the results obtained.

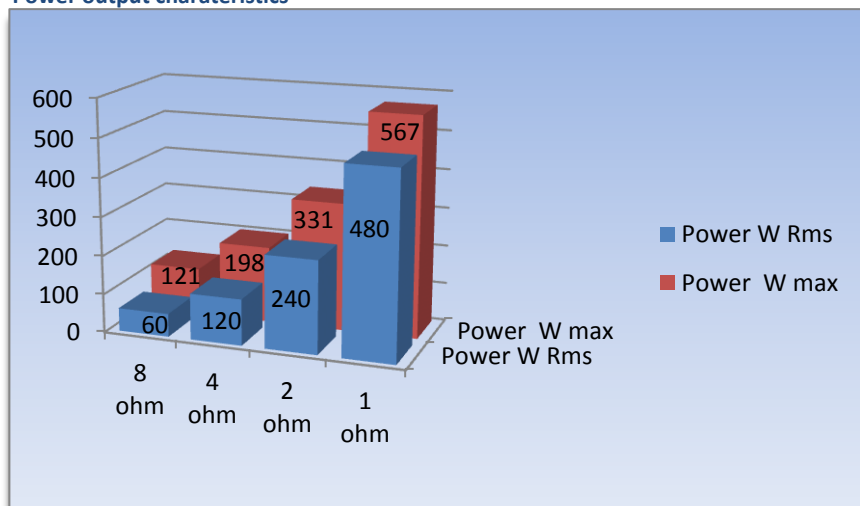
Output devices elusively BJT (Bipolar junction transistors) have the advantage of being very linear and very sensitive to self-oscillations in high frequency. Besides the advantage of being able to withstand higher current delivery. For this reason, we have preferred to Mos-fet normally used in class A.

....All this ... for a single note

- Tour of filtering low ESR and high operating temperatures. Up to 120
- Bjt output device for high performance
- Input stage in HDCA tecnologia with instrumentation component for very high signal to noise ratio
- Power transformers at low induction design
- steel chassis 30/10 tickness to eliminate any sort of vibration
- Power control and protection system with advanced MCU intervention for a unmatched precision
- Balanced inputs to eliminate any interference
- PSU section "armored" to ensure zero vibration
- Innovative cooling system of the rectifier circuit
- PSU made with board-to-board system zero wiring to ensure exceptional flow of current and contact resistance almost non-existent
- Components of value with 1% tolerances



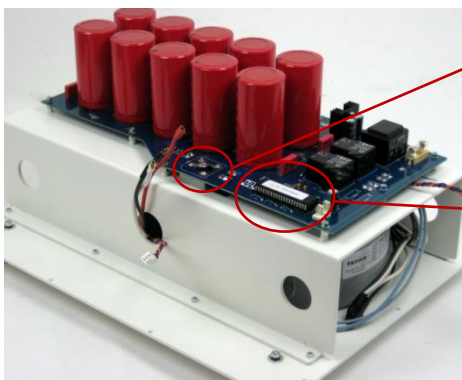
Power output charateristics



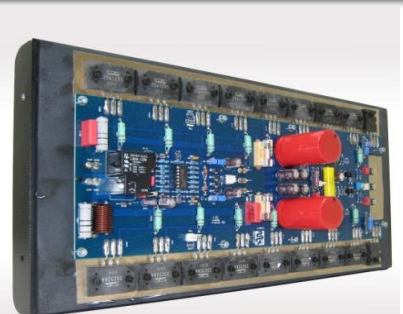
Particular of bridge diode rectifier



PSU Section – power filtering capacitors , transformers and aluminum casing



Control operation microprocessor



HDCA input stage



Internal view and circuit layout





Technical features

- **Continuos average output power (10hz – 20.000 hz)**
 60 Watt per channel into 8 ohm
 120 Watt per channel into 4 ohm *stereo operation*
 240 Watt per channel into 2 ohm *(both channel driven)*
 480 Watt per channel into 1 ohm
- **Total harmonic distortion** *stereo operation (both channel driven)* 0.05% with 2 ohm load / 0.03% with 4-8 ohm load
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- **Frequency response** at rated output 20-20Khz +0 -0.25 Db - at 1 Watt output 20-110Khz +0 -3 Db
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- **Damping Factor** >200
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- **Input sensitivity** 0.9 V for full power 8 Ohm
- **Input impedance** 47 Kohm balanced / 22 Kohm unbalanced
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- **Signal to noise ratio** >110 Db
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- **Power requirements** AC 120 V or AC 230 V (see in rear panel)
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- **Power consumption** 120 Watt idle
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- **Maximum dimension** 460 x 250 x 420 mm (DxHxW)
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- **Weight** 45 Kg

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eamlab produced entirely by hand in Italy - these features may be subject to change