

# ELEMENT 501

*Mono power amplifier*



ELEMENT  
501

ELEMENT  
501

201  
ELEMENT

Monophonic amplifiers are a benchmark for the highest quality playback combined with an extensive headroom.

**ELEMENT 501** can provide power up to 1800 W.rms 2 ohms with distortion less than 0.03%. Is a reference for the category.

These data are however not the result of chance but of a careful design of each amplifier stage that was aimed to achieve data set

The power supply stage, the beating heart performance, is designed with great care to details, and uses two toroidal transformers in parallel for a total of 2KVA. transformers are potted and encapsulated, wound on ferromagnetic cores with low loss. The windings are interlaced and the materials used make void the vibrations typical of large transformers to the full advantage of the sound reproduction and environmental noise.

The output stage provides well 16 pairs (32 transistors in total) of BJT Sanken capable of withstanding and deliver continuous currents in the order of 350 A at 25 ° c .. Translated in dynamic terms we have a virtually infinite well as to a ' extreme reliability in virtually any situation.

The technology of the **501**, however, is not just performance and extreme power but also musicality of the highest level, as is traditional EamLab.

The advantage monaural amplification is perceived immediately by the great channel separation, the stratospheric dynamics, the sonic detail and the large, three-dimensional sound stage.

The amplifier is also equipped with a protection system to the microcontroller, very reliable and precise, which manages all the operations from power to the thermal protection and over-current.

On the back are 4 connectors WBT output for easy bi-wiring and two pairs of input connectors XLR / RCA can also be used for parallel.

The amplifiers are also equipped with a comfortable command Trigger IN / OUT for automatic switching from the source, eg. MUSIC ELEMENT C201 C101 preamplifier or source or otherwise mark equipped with trigger control.

**HDCA** modules are mounted directly on the rear panel to the input connectors soldered on the PCB without using shielded cables. A 'device that minimizes the signal path with consequent high levels of SN / R.

the aluminum casing that encloses the powerful transformer acts as a base par of the PCB to which the filter feeding, always without use of wiring, are welded to the two rectifier bridges.

So we got a triple function. Maximize the passage of current, dissipating the heat produced by the best bridge rectifiers and shield the magnetic flux generated by the toroidal transformer.

The engineering EamLab always allows you to build powerful products and faithful in small dimensions





## Datasheet

- **Power rms** 500 / 1000 / 1800 - **8/4/2 ohm**
- **Thd** 0.002% full power 8 ohm
- **F/R** 5hz to 100 Khz +/- 0.5db
- **SN/R** >120db
- **CMMR** >80db
- **Z Input** 22Kohm RCA / 47Kohm XLR
- **Input sens** 1.2Vrms full power 8 ohm
- **Slew rate** 35V/us
- **D.F** > 300 at 8ohm / 50Hz
- **Continuos voltage out** 65V rms
- **Peak voltage out** 80 Vrms
- **Current out** up to 300 A.
- **Comsumption** stand-by 1W , IDLE 20W , full power 8A/1800W
- **Output impedance** 8/4/2 ohm
- **Weight** 45Kg
- **Dimension** 460\*420\*230mm