



Reference 152a

Pure class A

The purity of sound reproduction of class A - HDCA.2 input stages with components from "Instrumentation" for an exceptional signal-to-noise ratio - innovative power supply circuit which uses superfast diodes to guarantee transient response times never achieved before - device of Sanken bipolar output for unique performance. 2,000 VA toroidal transformer to provide the maximum energy at the highest absolute levels of volume and impedance

Reference 152A was born to amaze. It is clearly stated that Class A designs are the most accurate musical topology. Class A amplifiers do not suffer the intrinsic distortions that all AB class amplifiers experience. In a classic Class A design, the output transistors fully conduct the current at any time, regardless of the actual one required by the speakers. In this way each phase rotation on the signal is canceled for the benefit of the incredible fluidity of reproduction of the musical message.

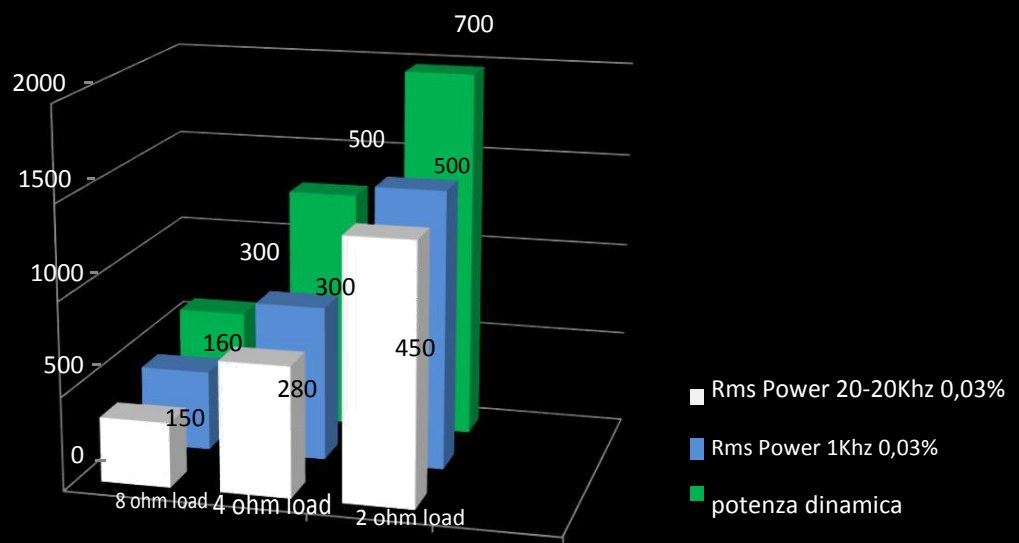
But clearly not all class A know how to play so well. We in the 152A wanted a sufficiently high power able to drive with confidence even the most demanding systems, a driving ability that does not "cut" the strong musical passages on speakers with impedance modules close to the short circuit and, obviously, a sound worthy of the name REFERENCE.

Reference152a is equipped with a separate double secondary transformer with a total of 2000 VA and a total filtering capacity of 233,000 Uf. with this equipment it provides 150 W rms per channel on 8 ohms in pure Class A 280 to 4 and 450 on 2 between 20 Hz and 20 KHz with a distortion of less than 0.03%.

But not just power. In Reference 152A we also wanted greater speed of response to transients, a neutral sound

independent of sound pressure and reliability of operation in any condition.

Particular care in the power supply circuit, such as the use of ultrafast diodes for rectifying to replace the classic rectifier bridges, the low-induction transformer with a yield of 97%, the aluminum film capacitors with very tight tolerances, have made us achieve the objectives set.



Power characteristics towards impedance

All the technology of this amplifier is enclosed in a beautiful anti-vibration steel chassis and an assembly specifically designed to minimize any induced interference. Components of the latest generation and undisputed quality equip this powerful amplifier.

Innovative control and protection circuits always guarantee perfect and long-lasting operation in complete safety. THL, the circuit used to monitor the operating temperature, is entrusted to the LM35 probes and managed by the CPU. much more precise and reliable than normal thermal circuit breakers. The CPU is also entrusted with the ignition in full safety of a power bank to say the least mammoth.

We can simply say ... NO COMPROMISE!



Main features

Solidity - 30/10 steel chassis to minimize vibrations and resonances at high listening volumes, efficient solidity of the structure made up of hoses milled from solid.

functional insulation - transformer and network filter insulated in aluminum container to keep away possible sources of noise from the amplification circuits

PFC - Power Factor Correction, on the power line reduces the noise pollution from the mains harmonics and increases the use of the 95% network voltage. the voltage and current from the amplifier remain in phase with each other and eliminate the transient off-axis to the high current pulses present in amplifiers without PFC

HDCA.2 - the input stage is mounted on multilayer ceramic PCB according to MIL-Spec standards with low dielectric constant. the ceramic support guarantees a very high circuit stiffness, indispensable for obtaining an efficient treatment of the input signals free from any interference. All armored and resined.

Film resistors - all resistors are low noise and with a tolerance of 1% to minimize the thermal noise of the active circuitry

Error Detection - a microprocessor-controlled error detection circuit ensures the protection of connected speakers under many extreme operating conditions



Experience the magic of incredible reproduction and absolute authority. Instruments and singers materialize within a surprisingly real soundtrack

From the most delicate solos, to the full orchestral high dynamics, all the emotion of music in a seemingly endless spectrum of frequencies

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Eam Lab produces entirely by hand in Italy - the above characteristics may change

- **Continuous average output power (20hz – 20.000 hz)**
 150Watt per channel into 8 ohm
 280Watt per channel into 4 ohm *stereo operation*
 450Watt per channel into 2 ohm *(both channel driven)*
 700Watt in mono mode 4 Ohm
- **Total harmonic distortion** *stereo operation (both channel driven)*- 0.07% with 2 ohm load / 0.03% with 4-8 ohm load
- **Frequency response** at rated output 20-20Khz +0/-0.25 Db - at 1 Watt output 20-80Khz +0/-3 Db
- **Damping Factor**>400 at 50 -80-120 hz refer 8 ohm
- **Input sensitivity**0.9 V for full power 8 Ohm
- **Input impedance** 47 Kohm balanced / 22 Kohm unbalanced
- **Signal to noise ratio** >115 Db weighted A
- **Power requirements** AC 120 V or AC 230 V (see in rear panel)
- **Power consumption** 300 Watt idle–
- **Maximum dimension** 550 x 250 x 600 mm (DxHxW)
- **Weight** 70 Kg