

511 Stereo amplifier

Product announcement

Dulliken, 26 April 2016



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Precision, stability and velocity...

... just a razor-thin fraction behind our reference designs of Series7, this was the design goal we have set for the 511 stereoamplifier. The 511 is equipped with the same "switched-mode" power supply technology, optimized for audiophile applications, as our series7 products. Additionally it is optimized for shortest "signal paths" for the music signal but as well for shortest paths and optimal flow of the current supplying the amplifier stages. Get inspired by the uncompromising music playback and enjoy the diversity and natural beauty of the music. A sound experience, of which everyone will be enchanted. Convince yourself!

Key Features

- "Switched Mode" power supply(4 x 600VA) optimized for use in audio amplifiers
- more than 500'000 μ Farad of storage capacitance in the power supply
- Peak current rating of more than 60A
- versatile: stereo-, mono- und dual-mode
- Impuls power rating > 3'000 Watt (stereo/dual), > 6'000 Watt (mono)

Operating modes

The 511 stereo-amplifier can be used in three different setups:

- Stereo-mode: 150W @ 8 Ω , 300W @ 4 Ω , 600W @ 2 Ω per channel
- Dual-mode: 150W @ 8 Ω , 300W @ 4 Ω , 600W @ 2 Ω per channel
- Mono-mode: 600W @ 8 Ω , 1'200W @ 4 Ω , 2'000W @ 2 Ω



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Amplification

The amplification circuit similar to the technology used for the 711 and 701 amplifiers. At its core is a proprietary voltage amplification stage that consists of linearized amplifiers operating up to a cutoff frequency of 80MHz. Current amplification is done in three stages, each using a very small and thus almost linear operating range. The high Class A operation supplemented by 500,000µF of storage capacitance in the power supply results in a nearly infinite impulse response. Massive copper bars on the amplifier board and to the speaker terminals ensure that all the power of the 511stereo amplifier is available to drive the speaker. This ensures the 511 does not get the plaything of the loudspeakers, but controls them with the appropriate precision, power and velocity asked for by the music signal. High-precision idle current management ensures optimal Class A operation for all conditions, without requiring any readjustment in the music signal. Optimal sound is thereby guaranteed immediately from switch on.

Powersupply

A total of 10 power supplies - optimized for each function - feed the 511 stereo amplifier. Circuitry that does not process audio signals should not be able to influence them. Therefore those supplying the digital and audio circuits are electrically isolated from each other by optocouplers. Four cutting-edge switched-mode power supplies 2'400W of audiophile quality power. They feature high performance filtering at the input and output, and six linear, high-speed, ultra-low noise voltage regulators to deliver considerably more stable power than any conventional, transformer-based technology.

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| Production start: | October 2016 |
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