



Hertz HP 6001 internal view



Hertz HP 802 front panel



Detail of the aluminum extruded heat sink of Hertz SPL Show amplifiers

To remain true to the Hertz tradition, the HP amplifiers combine high power with state-of-the-art design and components.

The design concept of these amplifiers was oriented towards the building of "open door" systems with great acoustic impact: the result is three, very powerful models: **two D Class mono and one AB Class stereo**.

**The HP 802** is a stereo amplifier, able to deliver up to **1800W**; the **HP 3001** and **HP 6001** are powerhouse mono models, delivering **3600W** and **6000W** respectively.

In order to deliver such extraordinarily high power and to transfer it reliably, **the power supply stage** are overbuilt featuring components selected for their efficiency and reliability: the HP 802 houses 4 toroidal transformers, while 8 are featured in the robust HP 6001; 330uF and 2200uF-105° (Low ESR) primary capacitors, 130A and 120A TO247 mosfets and additional secondary capacitors. The final output stage is equipped with hi-tech transistors, MOSFET style for the two mono models with high-current, BJTs for the stereo model: massive output without compromising reliability.

Also the layout of the printed circuit boards has been specifically designed for SPL systems: the current paths and component placement has been optimized for perfect thermal stability even when driving low impedance loads.

The **Front End** section is based upon complex design architecture, beyond the standards of mobile electronics dedicated to high power systems, but in line with the Hertz philosophy to offer endless solutions to achieve the perfect configuration in any given system.

The HP 802 features separate Hi-Pass and Lo-Pass filters, able to be configured into a Band-Pass filter. An adjustable parametric equalizer is on board, as well as a Pre Out to re-launch the input signal to other amplifiers in a multi-amplified system.

The HP 3001 and HP 6001 feature a by-passable Lo-Pass filter (24 dB/Oct. slope), subsonic filter, phase control, remote volume control (HRC) and also a Chain Mode function to cascade a second amplifier into a single load, achieving maximum SPL levels.

The **aluminium extruded heat sink** offers unheard-of thermal dissipation. The application of the extrusion technique provided the Hertz R&D team with limitless design ideas to keep operating temperature stable even during extreme operation. The rigid chassis features thick, deep heat dissipation "fins" along the side of the amplifier contributing to the obsession of thermal control.