

Power amplifier - PULSAR A 1220 R



At first glance this power amplifier may look small and delicate, but inside the case we find the technology of its big brother, the A 1520. The new ICA technology, recently developed by T+A, de-couples the amplifier's input stage from the current pre-amplifier stage. The new push-pull class A mirror current stage is designed to cope with high-level signal processing, and features transistors with a transient frequency of more than 300 MHz. The result is virtually bottomless dynamic reserves, a vast bandwidth and tremendous speed. Naturally the A 1220 R can be used as a normal stereo power amplifier, but it can also be employed in other modes, e.g. for bi-wiring or bi-amping in conjunction with other T+A power amplifiers. To protect the amplifier and the speakers connected to it an electronic circuit monitors the signals in the amplifier. This protective circuit is not located in the signal path, so it has absolutely no influence of any kind on the sound image. The circuit monitors the input signal before the output stage, and compares it with the output signal. If the slightest deviation occurs (clipping, distortion etc.) the circuit switches off the output relays. The protective circuit also trips if the outputs are shorted, or if the unit overheats.



Internal view of the **A 1220 R**

Connection elements



- INPUT** Asymmetrical amplifier input with an input sensitivity of 1 Veff.
- SPEAKER A + B** Two pairs of loudspeakers can be connected (**SPEAKER A** and **SPEAKER B**). The impedance of each speaker must not fall below 4 Ohm (DIN rating).
- CTRL** If the power amplifier is operated with an (optional) remote-controlled pre-amplifier (e.g. **P 1220 R**), then the **CTRL IN** socket should be connected to the pre-amplifier's **OUT CTRL** socket via the **RZ 001** remote control lead.

RLink Interface for future system expansions

Specifications

Stereo operation

<i>Nominal output 8 Ohms</i>	100 Watts
<i>per channel, both 4 Ohms</i>	140 Watts
<i>Peak output 8 Ohms</i>	180 Watts
<i>4 Ohms</i>	275 Watts
<i>Power bandwidth</i>	1 Hz – 300 kHz
<i>Frequency response + 0 – 3 dB</i>	0,5 Hz – 350 kHz
<i>Slew rate, stereo</i>	60 V/us
<i>Damping factor</i>	> 500
<i>Signal: noise ratio (A-weighted)</i>	> 110 dB
<i>Total harmonic distortion</i>	< 0,002 %
<i>Inputs</i>	Cinch
<i>Reservoir capacity</i>	90000 uF
<i>Mains supply, 110 V or 220 / 240 V, 50 Hz</i>	300 VA
<i>Dimensions</i>	7,5 x 44 x 3 cm
<i>Weight</i>	10,5 kg
<i>Colours</i>	Black (9005), Silver aluminium, Chrome (Non-standard version)
<i>Remote control</i>	Via R system

We reserve the right to alter technical specifications.