

Audvance Headphone amplifiers HPA-1

Safety note

The mounting and hooking up of amplifier modules in a cabinet should be done only by people that have the skills and knowledge to do so and understand safety requirements and the risks involved. Never touch any parts inside your amplifier when the powercord is attached.

The modules are not protected against overheating or a short circuit of the outputs.

Power transformer and connection to the mains

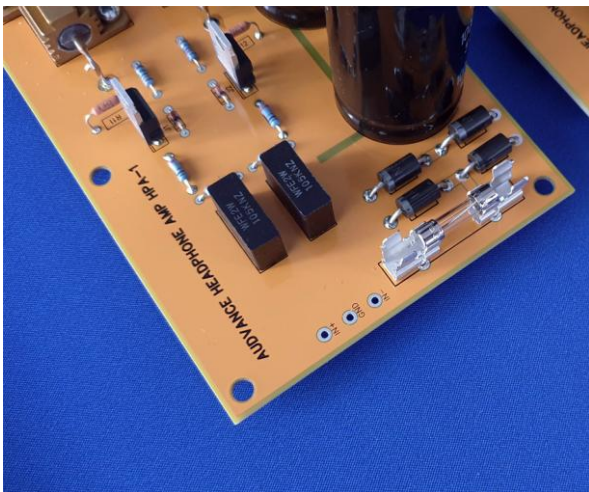
The secondary voltage from the power transformer should be 24VAC or 25VAC. Higher voltages may cause overheating of components or malfunction of the amplifier module. All specifications relate to a module powered with a 25VAC transformer. Since each module draws up to 2A of continuous current, the power transformer should have a power rating of at least 200VA if one transformer is used (stereo), or two 100VA ones for dual mono operation.

For reasons of safety an AC inlet is advised with built in twin fuses (Slow blow 1.6A for each phase). Make sure you connect your amplifier via a power cord to an AC outlet with a connection to earth. In the cabinet you should connect earth to all metal surfaces that can be touched from the outside.

Cabinet

It is very important that the ventilation of the cabinet is excellent since the modules dissipate a lot of heat, about 50W per channel. You need therefore sufficient holes in the bottom and top cover of your cabinet to avoid overheating. The modules have no protection against overheating.

Input connectors

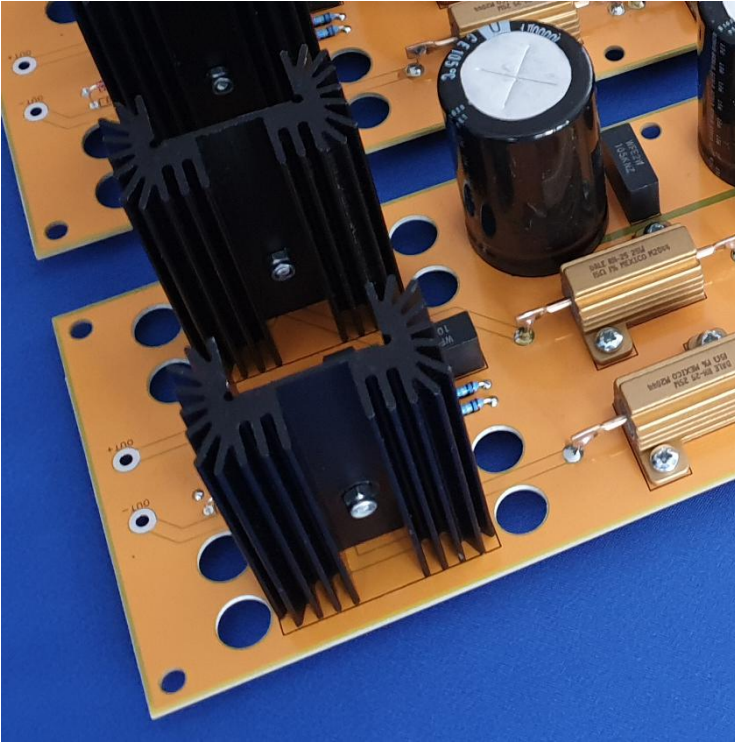


The inputs are balanced and the connection to your preamplifier can be made with two female XLR3 connectors. With these XLR3 connectors as input the following connections should be made for each channel:

Pin number connector	Connection
1	GND
2	Hot (+)
3	Cold (-)

The pin numbers of the connectors are printed in relief on the connectors themselves.

Output connectors



The output is balanced and the connection to your headphone can be made with either a single female XLR4 connector or two female XLR3 connectors.

With a **single XLR4 connector as output** the following connections should be made:

Pin number	Connection
1	Hot (+) left channel
2	Cold (-) left channel
3	Hot (+) right channel
4	Cold (-) right channel

With **two XLR3 connectors as output** the following connections should be made for each channel:

Pin number connector	Connection
1	Not used
2	Hot (+) left channel
3	Cold (-) left channel

The pin numbers of the connectors are printed in relief on the connectors themselves.