

high-amp Antares operating constructions



table of contents

characteristics	2
connection and operation	2
notes and warnings	3
front and back	4
troubleshooting	5
technical data	5
guarantee	6
EU declaration of conformity	6

Thank you for purchasing a headphone amplifier from high-amp.

Characteristics

- class A push-pull tube output stage
- fully symmetrical DC amplifier with stabilized linear power supply
- input section equipped with extremely low-noise JFETs
- high frequency interference decoupled by using silver mica capacitors
- Vishay/Panasonic elkos in the power supply
- oversized transformer for a powerful structured bass
- all signal lines oxygen-free copper cable from Neotech
- optional XLR or RCA input
- 2 x 5-pin headphone output with bias voltage 580V DC

Connection and operation

- Connect the power cable to a 230V AC mains supply.
- The amplifier can be connected directly to source devices such as D/A converters, CD players, or preamplifiers that have an RCA or XLR output. Use a cable with RCA (unbalanced) or XLR (balanced) connectors to connect your source devices to the input jacks on the rear panel of the amplifier. XLR and RCA inputs cannot be used simultaneously. Both inputs are internally connected; in the RCA position, only the negative inputs are grounded.
- Now turn on the amplifier using the power switch and turn the volume control counterclockwise to approximately 9 o'clock to avoid excessively high startup volume.
- Select the input source using the RCA/XLR switch on the rear panel.
- Finally, plug the 5-pin plug of the electrostatic headphones into one of the jacks on the front panel of the amplifier; parallel operation of two headphones is possible.
- Increase or decrease the volume as needed while listening to music using the volume control.
- After use, turn the amplifier off using the power switch on the front panel.

Notes and Warnings

- It is recommended that you connect the headphones only after turning on the amplifier and remove them before turning it off.
- Since the amplifier housing also acts as a heat sink for the power transistors, the temperature on the top panel can rise to approximately 50-60 degrees Celsius!
- Do not expose the amplifier to direct sunlight.
- Do not place the amplifier in the immediate vicinity of a heat source such as a radiator.
- If the amplifier is switched on and off very quickly (approximately 3-4 times or more), a protective circuit is activated that remains active for approximately 30 minutes before it can be switched on again.
- Due to the high voltages inside the amplifier, you should not open the case or expose it to splash water. Metal objects must not be inserted into the input or output jacks.
- high-amp assumes no liability for the proper functioning or the occurrence of defects of the connected electrostatic headphones! This amplifier is specified for a bias voltage of 580V, optionally 230V, and has a 5M Ω protective resistor in the bias voltage supply.
- For the health of your ears, you should avoid volumes exceeding 100dB for extended periods.

front and back



- 1 power switch
- 2 volume control
- 3 headphone jacks
- 4 XLR-inputs
- 5 RCA-outputs
- 6 input selector
- 7 IEC socket

troubleshooting

no sound

- Is the amplifier connected to the mains via the power cable?
- Check the position of the power switch.
- Is the power switch illuminated?
- Is a signal present at the input jacks?
- Are both inputs (XLR and RCA) connected? Only one input may be connected.
- Is the input selector switch (rear panel) in the correct position?

distorted sound, noise

- Distortion can occur if the volume level is set significantly too high or if the output level of the source devices exceeds the standardized levels.
- If humming problems occur, please check the contacts, especially the ground connections, and ensure that sensitive signal paths are galvanically isolated.

If the above checks do not resolve the issue, please contact us.

technical data

- Frequency response: 0-50,000 Hz
- Gain factor: 60 dB (x1000)
- Total harmonic distortion at 100 Vrms, 1 kHz: <0.02% THD
- Input impedance: 10 kOhm
- Maximum output voltage: 340 Vrms at 1 kHz and 1% THD (Stax SR-007: 110 dB, Stax SR-L700/SR-009: 111 dB)
- Bias voltage: 580 V (suitable for all Pro-Bias headphones)
- Mains voltage (AC): 230 V / 50-60 Hz
- Operating conditions: 0-30°C
- Weight: 4.7 kg
- Dimensions (W x H x D): 240 x 140 x 295 mm
- Power consumption: 43 W

Guarantee

high-amp offers a 24-month warranty on this product. In the event of a defect in your amplifier, high-amp will repair your device.

The warranty is void in the following cases:

- operation of the device in violation of the conditions stated in the user manual.
- misuse, accidental damage, or unauthorized modifications.
- improper shipping of the device; use the complete original packaging if possible.

EU declaration of conformity

The manufacturer declares under his sole responsibility that the above-mentioned product complies with the following EU directives:

- 2014/35/EU – Low Voltage Directive (LVD)
- 2014/30/EU – EMC Directive
- 2011/65/EU – RoHS Directive (including 2015/863/EU)
- (EU) 2024/178 – Ecodesign Directive

Harmonized standards applied:

- EN 62368-1:2014 + A11:2017 – Audio/video, information and Communications technology – security
- EN 55032:2015 – Multimedia equipment – Emission
- EN 55035:2017 – Multimedia equipment – Immunity
- EN IEC 61000-3-2:2019 – Harmonics
- EN IEC 61000-3-3:2013 – Voltage fluctuations/flicker

Please dispose of the product at the end of its useful life at your local municipal collection point or recycling center. The manufacturer is responsible for this declaration. All information in this declaration has been prepared to the best of our knowledge and belief and is based on the date of issue of this declaration.

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