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Fosi Audio V3 MONO

Fosi Audio V3 Mono Power Amplifier User Manual

Model: V3 MONO

Introduction

The Fosi Audio V3 Mono Power Amplifier is designed for high-fidelity audio systems, offering a powerful and versatile solution for driving passive speakers. This manual provides essential information for setting up, operating, and maintaining your amplifier to ensure optimal performance and longevity.

Each V3 Mono amplifier is a Class D monoblock unit, capable of delivering up to 240W into a 4Ω load when paired with a 48V/10A power supply. These amplifiers are ideal for creating 2-channel, 3-channel, or 5-channel home audio systems, including home theater setups.

What's in the Box?

Please check the contents of your package to ensure all items are present:

- V3 MONO Power Amplifier x2
- Power Filter x1
- 48V 10A Power Supply x1
- Splitter Cable x1
- User Manual x1 (This document)



Image: Contents of the Fosi Audio V3 Mono Power Amplifier package, showing two amplifiers, a power filter, power supply, splitter cable, and user manual.

Product Features

High Power Output

The V3 Mono amplifier is capable of driving a single passive speaker with up to 240W of rated power at 4Ω, allowing for flexible system configurations for various home audio needs.

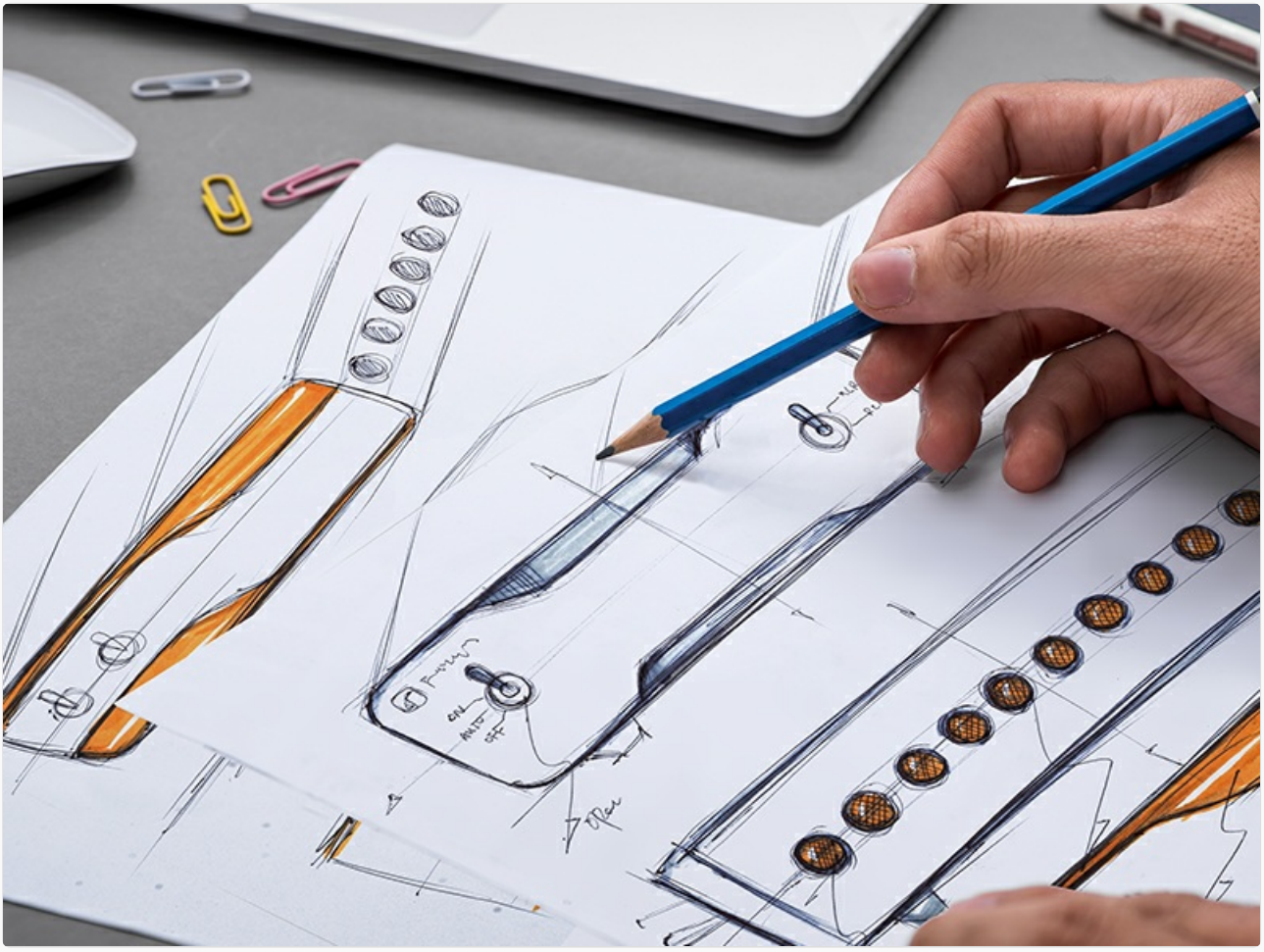


Image: A Fosi Audio V3 Mono amplifier highlighting its 240W rated power output when paired with a 48V power supply.

Post-Filter Feedback (PFFB) Technology

Integrated PFFB technology addresses load dependency issues common in Class-D amplifiers, resulting in improved distortion characteristics, enhanced frequency response, and overall superior sound quality.



Image: A Fosi Audio V3 Mono amplifier with the text 'PFFB Post-Filter Feedback Technology Integrated' indicating its advanced audio processing.

Your browser does not support the video tag.

Video: An overview of the Fosi Audio V3 Mono Power Amplifier, demonstrating its features and design.

High-End Internal Components

The V3 Mono utilizes a TPA3255 Class-D amplifier chip and premium components including Japanese Nichicon filter capacitors, ELNA capacitors, German WIMA capacitors, and Japanese Sumida inductors. This selection ensures high audio fidelity with low distortion (THD as low as 0.006%), a SINAD of 101dB, and an SNR of 123dB.



Image: Detailed view of the internal components, including Nichicon, WIMA, ELNA capacitors, and Sumida inductors, emphasizing their quality.

Efficient Heat Dissipation

The amplifier features a full-body heat dissipation design where the TPA3255 chip is integrated with the chassis, allowing heat to dissipate efficiently through the casing. Dual side ventilation holes further enhance internal airflow, ensuring stable high-power output during extended use.



Image: An illustration showing the heat dissipation design of the V3 Mono amplifier, with arrows indicating airflow and heat transfer.

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Video: A demonstration of the V3 Mono's heat dissipation design, including thermal imaging to show its effectiveness.

Versatile Inputs and Customization

The amplifier supports both XLR (balanced) and RCA (single-ended) inputs, with an easy toggle switch for selection. RCA inputs offer selectable gain settings (19dB and 25dB). The design also allows for customization by replacing the stock NE5532 op-amps with compatible DIP8 dual discrete op-amps.



Image: A close-up of the amplifier's rear panel, detailing the XLR and RCA input options and the gain selection switch.

Setup Instructions

Follow these steps to connect your Fosi Audio V3 Mono Power Amplifier to your audio system:

1. **Placement:** Position the amplifier on a stable, flat surface with adequate ventilation. Ensure it is away from direct sunlight, heat sources, and moisture.
2. **Connect Speakers:** Connect your passive speakers to the speaker output terminals on the rear of the V3 Mono amplifier. Ensure correct polarity (+ to + and - to -). For a stereo setup, you will need two V3 Mono amplifiers, one for each speaker.

3. **Connect Audio Source:** Connect your audio source (preamp, DAC, streamer, AVR, or media player) to the input of the V3 Mono amplifier using either XLR or RCA cables. Use the toggle switch on the front panel to select the appropriate input.
4. **Power Connection:** Connect the provided 48V 10A power supply to the DC input on the rear of the amplifier. Then, plug the power supply into a wall outlet.
5. **Initial Power On:** Ensure all connections are secure before powering on the amplifier.



Image: A diagram illustrating the connection of the V3 Mono amplifier within a typical home audio setup, including source components and speakers.

Operating Instructions

Operating your V3 Mono amplifier is straightforward:

1. **Power On/Off:** Use the power switch on the front panel to turn the amplifier ON or OFF. The 'AUTO' setting enables auto power/signal sensing, where the amplifier will turn on when an audio signal is detected and enter standby after a period of inactivity.
2. **Input Selection:** Use the input mode switch (XLR/RCA) on the front panel to select the active audio input.
3. **Gain Selection (RCA Input):** If using the RCA input, you can select between 19dB and 25dB gain using the switch located near the RCA input on the rear panel. Adjust this based on your source device's output level and desired volume range.
4. **Volume Control:** Volume is controlled by your pre-amplifier or source device. The V3 Mono is a power amplifier and does not have its own volume control.



Image: A detailed view of the front and rear panels of the V3 Mono amplifier, labeling the power switch, input mode switch, RCA input, gain switch, XLR/TRS balanced input, passive speaker output, and DC power input.

Specifications

Key technical specifications for the Fosi Audio V3 Mono Power Amplifier:

Feature	Detail
Model Number	V3 MONO
Amplifier Chip	TPA3255 Class-D
Rated Power Output (48V/5A PSU)	240W @ 4Ω (THD 1%)
Rated Power Output (32V/5A PSU)	100W @ 4Ω (THD 1%)
THD	0.006%
SINAD	101dB
SNR	123dB
Inputs	XLR/¼" TRS Balanced, RCA Single-Ended
RCA Gain Selection	19dB, 25dB
Power Supply	DC 32-48V
Heat Dissipation	Full-body heat dissipation with dual side ventilation

Note: Performance specifications may vary slightly depending on the power supply used and load impedance.

Maintenance

To ensure the longevity and optimal performance of your Fosi Audio V3 Mono Power Amplifier, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Avoid using harsh chemicals or abrasive materials, which can damage the finish.
- **Ventilation:** Ensure that the ventilation holes on the sides of the amplifier are not obstructed. Proper airflow is crucial for effective heat dissipation.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place.
- **Cable Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

Troubleshooting

If you encounter issues with your V3 Mono amplifier, refer to the following common troubleshooting steps:

- **No Power:**
  - Check if the power adapter is securely connected to both the amplifier and the wall outlet.
  - Ensure the power switch on the front panel is in the 'ON' position (or 'AUTO' if using auto-sensing).
  - Verify the wall outlet is functional by plugging in another device.
- **No Sound:**
  - Confirm that the audio source is playing and its volume is turned up.
  - Check all audio cable connections between the source, pre-amplifier (if used), and the V3 Mono amplifier.
  - Ensure the correct input (XLR or RCA) is selected on the amplifier's front panel.
  - Verify speaker wire connections are secure and correctly polarized.
  - If using RCA input, check the gain setting.
- **Distorted Sound:**
  - Reduce the volume level from your audio source or pre-amplifier.
  - Check for damaged audio cables.
  - Ensure speaker impedance matches the amplifier's capabilities (typically 4-8Ω).
- **Intermittent Sound:**
  - Check for loose cable connections.
  - Ensure the amplifier is not overheating due to obstructed ventilation.

Warranty and Support

The Fosi Audio V3 Mono Power Amplifier comes with a**24 Months Manufacturer Warranty**. For warranty claims, technical support, or further assistance, please visit the official Fosi Audio store or contact their customer service.

Official Fosi Audio Store: Fosi Audio Store on Amazon

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