

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Senzooe](#) /
- › [XY-AP50L Stereo Digital Power Amplifier Board User Manual](#)

## Senzooe XY-AP50L

# XY-AP50L Stereo Digital Power Amplifier Board User Manual

Model: XY-AP50L

## 1. INTRODUCTION

This user manual provides detailed instructions for the proper installation, operation, and maintenance of the Senzooe XY-AP50L Stereo Digital Power Amplifier Board. This compact and efficient amplifier board is designed for various audio applications, offering 2.0 channel stereo output with convenient knob volume adjustment.

## 2. PRODUCT OVERVIEW AND COMPONENTS

The XY-AP50L is a versatile digital power amplifier board. Familiarize yourself with its components before installation.



**Figure 2.1:** Top view of the XY-AP50L amplifier board, showing the main circuit board, a screwdriver, various screws, standoffs, a DC power adapter, and a volume knob cap. This image displays the components typically included in the package.



**Figure 2.2:** Bottom view of the XY-AP50L amplifier board, showing the underside of the main circuit board and the included accessories. This perspective highlights the mounting holes and general layout from the reverse side.

### Package Contents:

- XY-AP50L Digital Power Amplifier Board
- Screwdriver
- Mounting Screws and Standoffs
- DC Power Adapter Cable
- Volume Knob Cap

## 3. SPECIFICATIONS



**Figure 3.1:** Dimensions of the XY-AP50L amplifier board, indicating a length of 52mm, width of 52mm, and a height of 16mm (excluding the knob). The knob diameter is 10mm.

## Technical Specifications

Feature	Detail
Model	XY-AP50L
Output Power	40W x 2 or 50W x 2 (depending on voltage/load)
Channels	2.0 Stereo
Input Voltage	DC 12V - 24V
Dimensions (Approx)	52mm x 52mm x 16mm
Weight (Approx)	77 g
Audio Input	AUX In, USB Audio
Features	Knob Volume Adjustment, Switch Functionality

## 4. SETUP AND CONNECTIONS

---

Follow these steps to properly set up your XY-AP50L amplifier board.

### 4.1 Power Connection:

1. Ensure the amplifier board is powered off before making any connections.
2. Connect a DC power supply (12V-24V) to the "DC 6-24V" input terminals. Observe polarity: positive (+) to positive, negative (-) to negative.
3. The included DC power adapter cable can be used for convenience if your power supply has a compatible barrel jack.

### 4.2 Speaker Connection:

1. Connect your passive speakers to the "SPK1" (Left Channel) and "SPK2" (Right Channel) output terminals.
2. Ensure correct polarity for each speaker (+ to + and - to -) to maintain proper audio phasing.
3. The amplifier supports 2.0 stereo output. Connect one speaker to SPK1 and another to SPK2.

### 4.3 Audio Input Connection:

The XY-AP50L supports two audio input methods:

- **AUX In:** Connect your audio source (e.g., smartphone, MP3 player, computer) to the "AUX IN" port using a 3.5mm audio cable.
- **USB Audio:** Connect the amplifier board to a computer's USB port using a USB cable. The board will be recognized as an audio output device, allowing digital audio playback.

*Note: Only one audio input source should be active at a time to avoid interference.*

## 5. OPERATING INSTRUCTIONS

---

### 5.1 Power On/Off:

The main knob on the board functions as both a volume control and a power switch. To power on or off, press and hold the knob for a few seconds until the indicator light changes or the device powers down.

## 5.2 Volume Adjustment:

Rotate the knob clockwise to increase the volume and counter-clockwise to decrease the volume.

## 5.3 Input Selection (if applicable):

The board automatically detects the active audio input. If both AUX and USB are connected, the board typically prioritizes one or switches based on signal presence. Refer to the indicator lights for the active input mode.

## 6. MAINTENANCE

---

- Keep the amplifier board in a dry, dust-free environment.
- Avoid exposing the board to extreme temperatures or direct sunlight.
- Do not use harsh chemicals or abrasive cleaners. Use a soft, dry cloth for cleaning.
- Ensure proper ventilation around the board during operation to prevent overheating.

## 7. TROUBLESHOOTING

---

### Common Issues and Solutions

Problem	Possible Cause	Solution
No sound output	No power Incorrect speaker connection Incorrect audio input connection Volume too low	Check power supply and connections. Verify speaker polarity and connection to SPK1/SPK2. Ensure audio source is connected to AUX IN or USB Audio. Increase volume using the knob.
Distorted sound	Input signal too strong Speaker impedance mismatch Faulty audio cable	Reduce volume from the audio source. Ensure speakers are compatible with amplifier output. Try a different audio cable.
Board gets hot	Lack of ventilation Overload (too low impedance speakers or too high volume for extended periods)	Ensure adequate airflow around the board. Reduce volume or check speaker impedance.

## 8. WARRANTY AND SUPPORT

---

This product is covered by the standard return policy of the retailer from which it was purchased. For specific warranty details and support, please refer to your purchase documentation or contact the seller directly.

For technical assistance or inquiries, please reach out to Senzooe customer support through the platform where you purchased the product.



