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› Senzooe XY-AP100L 100W Stereo Digital Power Amplifier Board User Manual

Senzooe XY-AP100L

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Model: XY-AP100L

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Senzooe XY-AP100L 100W Stereo Digital Power Amplifier Board. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INSTRUCTIONS

- Ensure the power supply voltage matches the specified range (DC 5-24V).
- Do not expose the device to moisture or extreme temperatures.
- Avoid short-circuiting the output terminals.
- Handle the board with care to prevent damage to components.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Senzooe XY-AP100L is a compact 100W stereo digital power amplifier board designed for various audio applications. It features dual-channel output and a 360-degree stepless rotary encoder for volume control.

3.1 Components



Figure 1: Top View of Amplifier Board. This image displays the top side of the XY-AP100L amplifier board, highlighting the central rotary encoder for volume control, along with labels for Audio Output, DC 5-24V power input, USB Audio input, and AUX In. Speaker terminals are also visible.



Figure 2: Bottom View of Amplifier Board. This image shows the underside of the XY-AP100L amplifier board, revealing the printed circuit board (PCB) traces, solder points, and various surface-mount components. Labels for speaker outputs (SPKR L, SPKR R), DC 5-24V, AUX, and USB AUDIO are also visible from this perspective.

- **Rotary Encoder:** For volume adjustment and mode selection.
- **DC Power Input (DC 5-24V):** Connect external power supply.
- **Audio Output:** Connect to passive speakers.
- **AUX In:** 3.5mm audio input jack.
- **USB Audio:** USB port for digital audio input.

4. SPECIFICATIONS

Feature	Description
Model	XY-AP100L
Output Power	100W Stereo (Dual Channel)
Power Supply	DC 5-24V
Control	360 Degree Stepless Rotary Encoder
Dimensions	Approx. 58 x 58 x 18 mm
Weight	Approx. 68 g



Figure 3: Product Dimensions. This image illustrates the approximate dimensions of the XY-AP100L amplifier board, indicating a length and width of 58mm each.

5. SETUP

- Power Connection:** Connect a DC 5-24V power supply to the "DC 5-24V" input terminals. Ensure correct polarity.
- Speaker Connection:** Connect your passive speakers to the "AUDIO OUTPUT" terminals. Ensure correct positive (+) and negative (-) connections for each channel (Left and Right).

3. **Audio Input:** Choose your desired audio input method:

- **AUX In:** Connect an audio source (e.g., smartphone, MP3 player) using a 3.5mm audio cable to the "AUX IN" jack.
- **USB Audio:** Connect a computer or other USB audio source to the "USB AUDIO" port using a USB cable.

6. OPERATING INSTRUCTIONS

1. **Power On/Off:** The board powers on automatically when connected to a power supply. Disconnect power to turn off.
2. **Volume Control:** Rotate the central knob clockwise to increase volume and counter-clockwise to decrease volume.
3. **Input Selection:** The board may automatically detect the active input. If not, short press the rotary encoder to cycle through available inputs (AUX, USB Audio).
4. **Play/Pause (USB Audio):** When using USB Audio, a short press of the rotary encoder may function as play/pause.

7. MAINTENANCE

- Keep the amplifier board clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid placing heavy objects on the board.
- Ensure adequate ventilation to prevent overheating.
- Do not attempt to disassemble or repair the board yourself. Contact qualified personnel for service.

8. TROUBLESHOOTING

- **No Sound:**
 - Check power supply connection and voltage.
 - Verify speaker connections and ensure speakers are functional.
 - Confirm audio input source is properly connected and playing.
 - Increase volume using the rotary encoder.
 - Ensure correct input mode is selected.
- **Distorted Sound:**
 - Reduce input volume from the source device.
 - Check speaker impedance compatibility.
 - Ensure power supply is stable and sufficient.
- **Intermittent Sound:**
 - Check all cable connections for looseness.
 - Inspect for any visible damage to the board or cables.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer or manufacturer's official website. Keep your purchase receipt as proof of purchase.



Figure 4: Product Packaging. This image shows the brown cardboard packaging box for the amplifier board, featuring labels with manufacturer details, batch number, production date, and various warning symbols and text in multiple languages regarding proper disposal and handling.