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HIFIDIY LIVE XY-Y100H

HIFIDIY LIVE Y100H TPA3116D2 Bluetooth 5.1 Digital Power Amplifier Board User Manual

Model: XY-Y100H

1. Introduction

The HIFIDIY LIVE Y100H is a 2.0 channel digital power amplifier board featuring Bluetooth 5.1 connectivity. It utilizes the TPA3116D2 chip, providing 100W + 100W output power with excellent sound quality and low total harmonic distortion (THD) even during prolonged high-power operation. This module supports Bluetooth input, AUX input, and USB flash drive playback, making it suitable for various home audio applications. The user-friendly design allows for easy setup by simply connecting a DC power source and speakers.

2. Safety Information

- **Power Supply:** Use a DC power supply within the recommended range of 9-24V. The recommended power supply voltage is 12-24V/3A or above.
- **Speaker Impedance:** If connecting 4-ohm speakers, ensure the input voltage does not exceed 21V. A 19V/4.74A power supply is recommended for this configuration.
- **Polarity:** Always observe correct polarity when connecting the power supply and speakers to prevent damage to the amplifier board.
- **Ventilation:** Ensure adequate ventilation around the amplifier board to prevent overheating, especially during high-power operation.
- **Environment:** Avoid exposing the board to moisture, dust, or extreme temperatures.

3. Package Contents

The self-assembled package typically includes the following components:

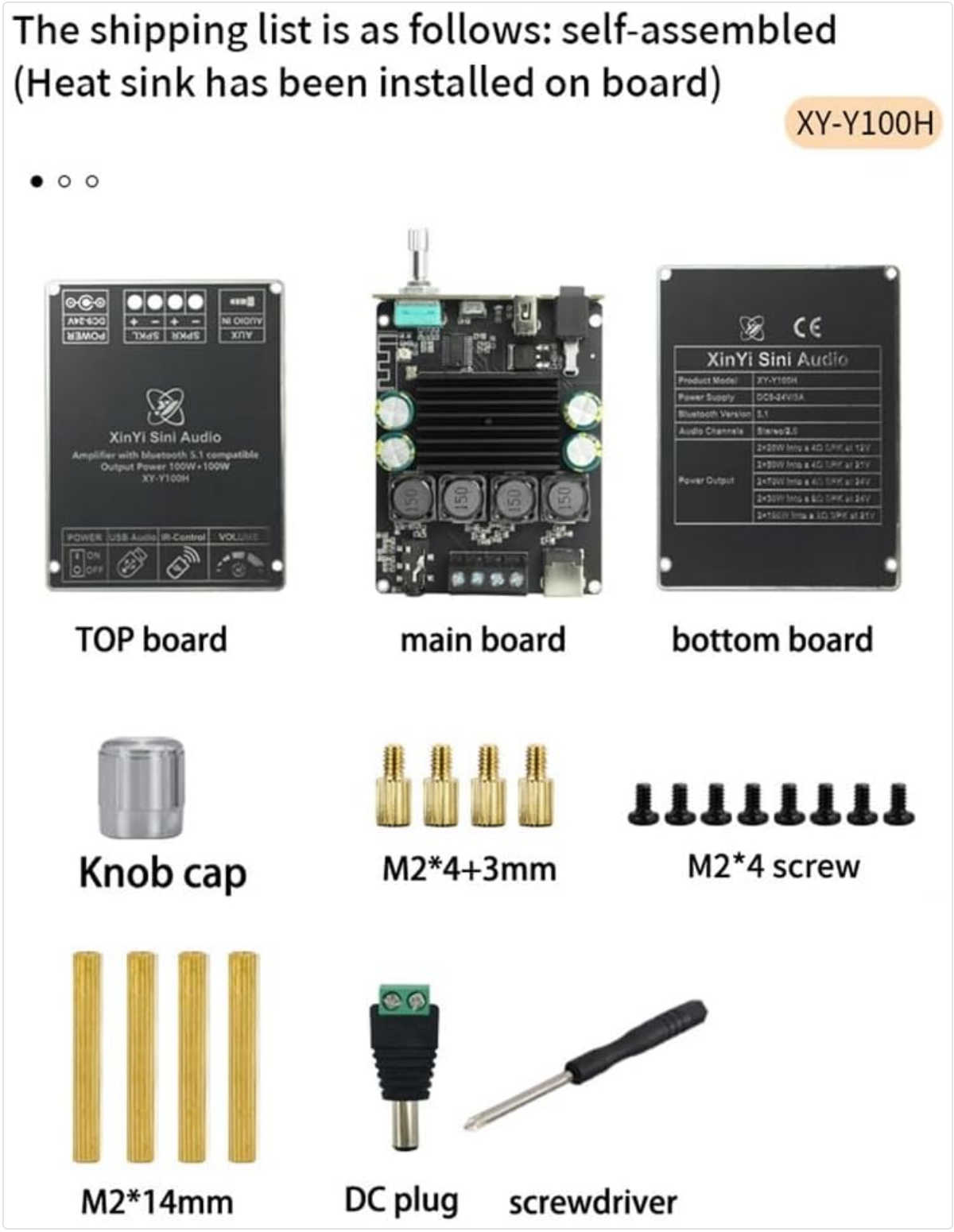


Image: Overview of the components included in the package, such as the top board, main board, bottom board, knob cap, various screws (M2*4+3mm, M2*4), M2*14mm standoffs, DC plug, and screwdriver.

- Amplifier Board (Main, Top, and Bottom boards)
- Knob Cap
- M2*4+3mm Screws
- M2*4 Screws
- M2*14mm Standoffs
- DC Power Plug
- Screwdriver

4. Product Overview

The Y100H amplifier board is designed for stereo audio amplification with multiple input options. It features a robust TPA3116D2 chip for stable performance and a user-friendly interface.

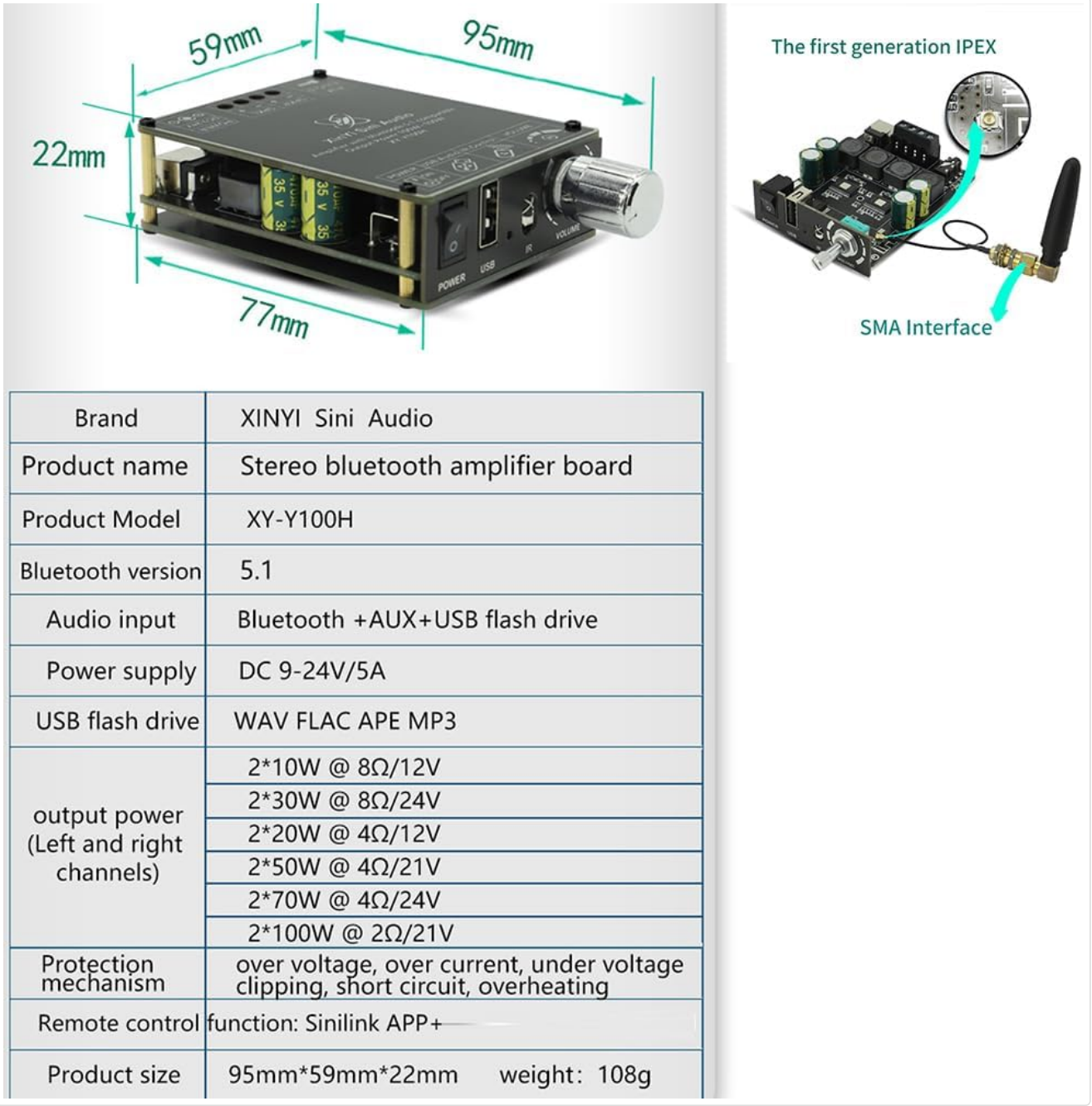


Image: Front view of the Y100H amplifier board, showing the power switch, USB port, IR receiver, and volume knob. Key features like Bluetooth Mode, 3.5mm AUX Input, and USB Flash Drive support are indicated.

Key Features:

- **Chip:** TPA3116D2 (with AM interference suppression)
- **Output Power:** 100W + 100W (Stereo)
- **Bluetooth Version:** 5.1
- **Input Modes:** Bluetooth, AUX (3.5mm), USB Flash Drive
- **Supported Audio Formats (USB):** WAV, FLAC, APE, MP3
- **Control:** Volume knob with multi-function press, Sinilink APP control
- **Protection Mechanisms:** Over voltage, over current, under voltage, clipping, short circuit, overheating

Dimensions:



Brand	XINYI Sini Audio
Product name	Stereo bluetooth amplifier board
Product Model	XY-Y100H
Bluetooth version	5.1
Audio input	Bluetooth +AUX+USB flash drive
Power supply	DC 9-24V/5A
USB flash drive	WAV FLAC APE MP3
output power (Left and right channels)	2*10W @ 8Ω/12V
	2*30W @ 8Ω/24V
	2*20W @ 4Ω/12V
	2*50W @ 4Ω/21V
	2*70W @ 4Ω/24V
	2*100W @ 2Ω/21V
Protection mechanism	over voltage, over current, under voltage clipping, short circuit, overheating
Remote control	function: Sinilink APP+
Product size	95mm*59mm*22mm weight: 108g

Image: Technical diagram illustrating the physical dimensions of the Y100H amplifier board: Length 77mm, Width 59mm, Height 22mm.

- **Length:** 7.7 cm (77 mm)
- **Width:** 5.9 cm (59 mm)
- **Height:** 2.4 cm (24 mm)
- **Weight:** Approximately 108 g

5. Setup

Follow these steps to set up your amplifier board:

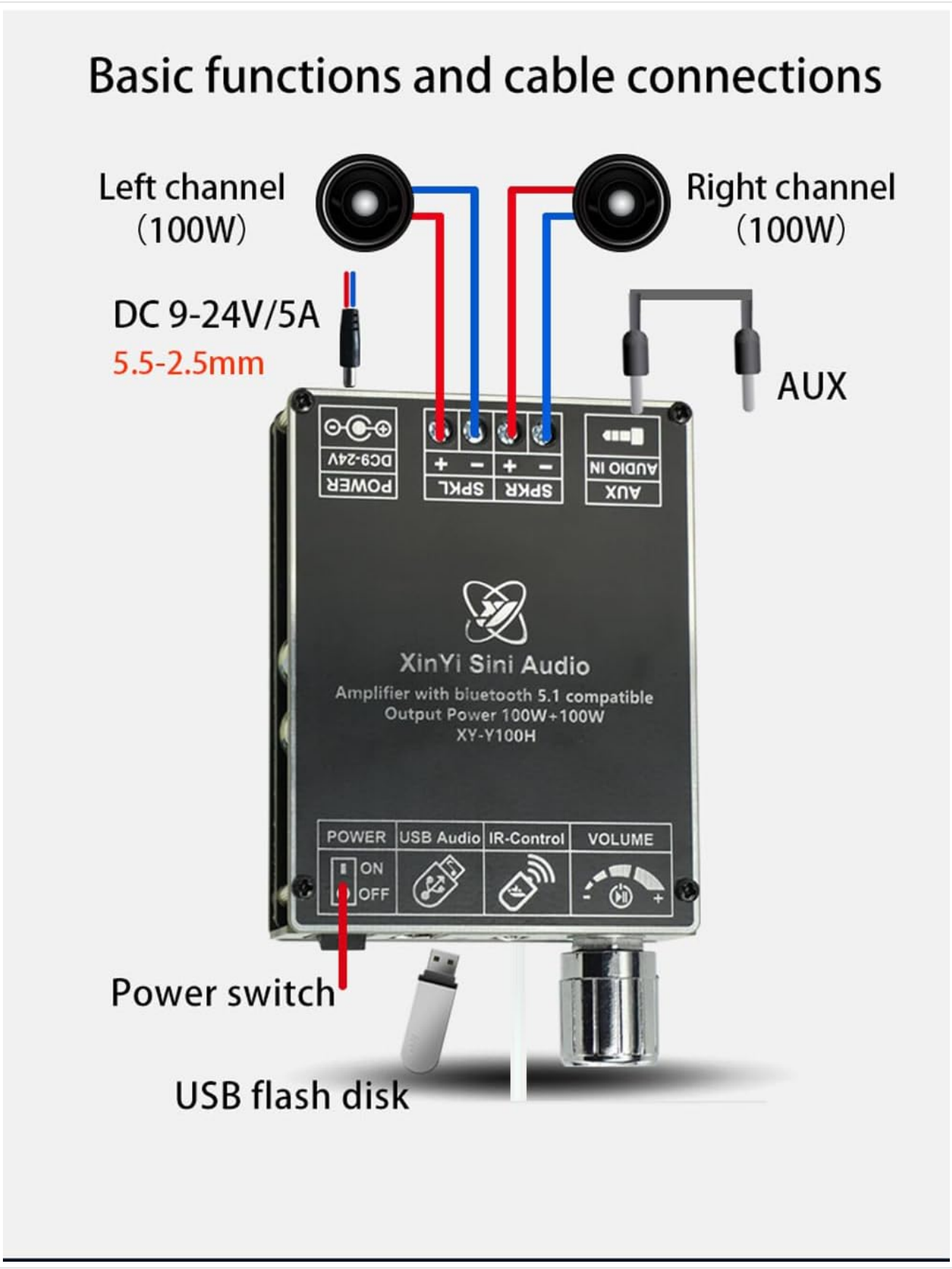


Image: Connection diagram showing how to connect the DC 9-24V/5A power supply, left and right channel speakers (SPKL/SPKR), and an AUX input device to the amplifier board. A USB flash disk is also shown connected.

1. **Connect Speakers:** Connect your passive speakers to the 'SPKL' (Left Channel) and 'SPKR' (Right Channel) terminals. Ensure correct polarity (+ to + and - to -). The board supports 100W per channel.
2. **Connect Audio Input:**
    - For AUX input, connect your audio source (e.g., phone, MP3 player) to the 'AUX IN' 3.5mm jack.

- For USB flash drive playback, insert a USB flash drive containing audio files into the 'USB' port.

3. **Connect Power Supply:** Connect a DC 9-24V/5A power supply (5.5-2.5mm plug) to the 'POWER DC9-24V' input. Ensure the power switch on the board is in the 'OFF' position before connecting power.
4. **Power On:** Flip the power switch to the 'ON' position to power on the amplifier board.

6. Operating Instructions

Volume Control and Multi-function Knob:



Image: Detailed explanation of the volume knob's functions: Turn clockwise to increase volume, turn counter-clockwise to decrease volume. Single click for Play/Pause, double click for Next track, long press for Power ON/OFF, and triple click to switch play mode (Bluetooth/AUX/USB flash drive).

- **Volume Adjustment:** Turn the knob clockwise to increase volume, counter-clockwise to decrease volume.
- **Play/Pause:** Click the knob once.
- **Next Track:** Double-click the knob.
- **Power ON/OFF:** Long press the knob.
- **Switch Play Mode:** Triple-click the knob to cycle between Bluetooth, AUX, and USB flash drive input modes.

Bluetooth Connection:

1. Ensure the amplifier board is powered on and in Bluetooth mode (triple-click the knob if necessary).
2. On your mobile device, enable Bluetooth and search for available devices.
3. Select "XinYi" from the list to connect.

Sinilink APP Usage:

1. Download the "Sinilink" app from your mobile app market or App Store.
2. Enable Bluetooth and location positioning on your mobile phone.
3. Open the Sinilink APP.
4. Navigate to the operation interface, click the yellow dot, then click "Bluetooth device".
5. Search for Bluetooth devices and connect to "Sinilink-APP".

7. Specifications

Feature	Specification
Model	XY-Y100H
Chip	TPA3116D2
Bluetooth Version	5.1
Audio Input	Bluetooth, AUX (3.5mm), USB Flash Drive
Power Supply	DC 9-24V/5A (Recommended 12-24V/3A or above)
Output Power (Left and Right channels)	2*10W @ 8Ω/12V 2*30W @ 8Ω/24V 2*20W @ 4Ω/12V 2*50W @ 4Ω/21V 2*70W @ 4Ω/24V 2*100W @ 2Ω/21V
Protection Mechanisms	Over voltage, over current, under voltage, clipping, short circuit, overheating
Remote Control Function	Sinilink APP+
Product Dimensions (L x W x H)	7.7 x 5.9 x 2.4 cm
Weight	108 g
Material	PCB, Electronic Components
Manufacturer	Qingdao Xinyiyunlian Electronic Technology Co.LTD

8. Troubleshooting

- **No Power:** Ensure the DC power supply is correctly connected and within the specified voltage range (9-24V). Check the power switch is in the 'ON' position.
- **No Sound:** Verify speaker connections are secure and correct polarity is observed. Check the selected input mode

(Bluetooth, AUX, USB) matches your source. Ensure the volume is not set to minimum.

- **Bluetooth Connection Issues:** Make sure the amplifier is in Bluetooth mode. Restart your mobile device's Bluetooth and try searching for "XinYi" again. Ensure no other devices are currently connected to the amplifier via Bluetooth.
- **Distorted Sound:** Check if the input voltage is too high for the connected speakers (especially 4-ohm speakers). Reduce the volume. Ensure speaker impedance matches the amplifier's capabilities.
- **USB Playback Issues:** Ensure the USB flash drive is formatted correctly and contains supported audio formats (WAV, FLAC, APE, MP3). Try a different USB drive.

9. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the amplifier board. Do not use liquid cleaners or solvents.
- **Storage:** When not in use for extended periods, store the board in a dry, dust-free environment.
- **Heat Management:** Ensure the heat sink (if applicable) is free from obstructions to allow for proper heat dissipation.

10. Warranty and Support

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

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