

## Power Output Table of A100

Power Supply	Speaker Impedance	BTL Stereo Output Power	PBTL Mono Output Power
24V / 5A	4Ω	68W*2	90W*2
	6Ω	61W*2	66W*2
	8Ω	55W*2	54W*2
32V / 5A	4Ω	78W*2	150W*2
	6Ω	71W*2	120W*2
	8Ω	65W*2	107W*2
36V / 6A	4Ω	107W*2	190W*2
	6Ω	100W*2	150W*2
	8Ω	94W*2	118W*2
48V / 5A	4Ω	120W*2	315W*2
	6Ω	110W*2	220W*2
	8Ω	102W*2	190W*2
48V / 10A	4Ω	250W*2	315W*2
	6Ω	210W*2	240W*2
	8Ω	185W*2	190W*2

## Frequently-asked Questions

- Q: All my cables are connected, why is there no sound output?
- A: 1. Check whether A100 is powered on and the power indicator is on or not.
2. Check whether the volume of A100 is in the minimum state or not.
3. If the above are all normal, please check whether the input signal of audio source is muted, paused, or the volume is in the minimum state or not.
- Q: Why is the sound distorted ?

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A: The distortion may due to the input signal amplitude is too large. If the volume of A100 and the audio source are both adjusted to the maximum state, the distortion easily occurs. Please turn down the volume of one of them.

Q: Why does the volume of different audio sources (such as changing CD player to phone) differ when the volume of A100 is unchanged?

A: Different audio devices can output different signal amplitudes, for example, the phone usually is 0.35V, while CD player is 1V. So it is normal that the sound differs when different audio sources are used.

Q: Why is there a loud current sound or buzzing sound on the speaker?

A: 1. Please use the original power supply. Many power supplies in the market have interference which will cause current sound.

2. When using unshielded signal cable in no load, there will be interference signals. Please use the shielded signal cable or unplug it.

3. If there is still noise after eliminating the above situations, please confirm the noise is from external or internal. Disconnect all inputs and only retain power supply and power cable. If the noise disappears, it is from audio input; if the noise is still there, it is possibly disturbed by power supply or generated by the internal of A100.

Q: Why there is no sound or very little sound after the A100 is connected to the speaker?

A: 1. Please check the audio source has been turned on and the volume is not at the minimum.

2. Please confirm whether the speaker and the A100 are matched. ( For example, the speaker is fixed resistance or fixed voltage, whether the power of speaker is too much over the power of the amplifier etc).

A: 1. Please check the audio source has been turned on and the volume is not at the minimum.

2. Please confirm whether the speaker and the A100 are matched. ( For example, the speaker is fixed resistance or fixed voltage, whether the power of speaker is too much over the power of the amplifier etc).

A: 1. Please check the audio source has been turned on and the volume is not at the minimum.

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Q: What are the reasons and troubleshooting methods for the unbalanced volume between the left and right speakers?

A: For a normal power amplifier, the volume of the left and right channels should be consistent. If there is an imbalance, please check it is from the sound source, input cable, volume potentiometer, speaker cables, or speakers (whether the placement of the speakers is symmetrical) etc.

Q: Why is there a thumping sound when swithing on/off?

A: Please confirm the on-off sequence is correct, normally it follows the order of signal transmission when turn on: audio source → preamp / DAC → amplifier → speaker. (The sequence is reversed when switching off. As the internal capacitors will be discharged for a while after shutdown. If turn off the preamp firstly and then turn off amplifier, impact sound will be easily caused which may damage the amplifier or speaker in severe cases.)

## Cautions

1. Don't open the case without permission, improper operation may cause electric shock.
2. Please use the regular manufacturer's switching power supply, poor-quality power adapters may result in the damage to the A100.
3. Don't put A100 in the environment of high temperature or high humidity.

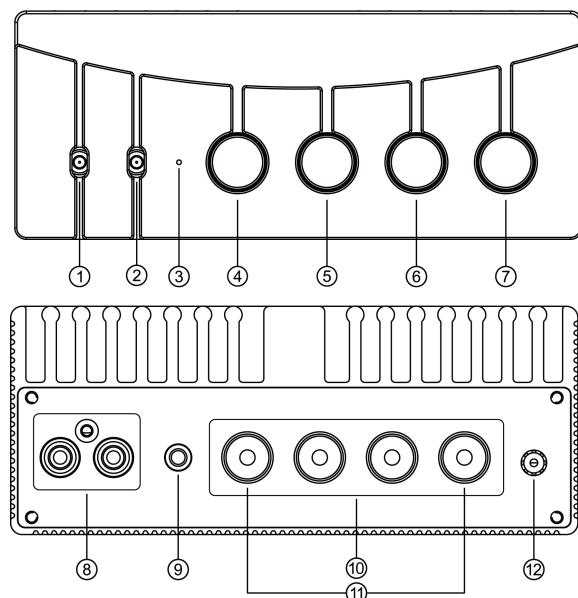
## Contact information

- Website: [www.doukaudio.com](http://www.doukaudio.com)
- Email: [nobsound@doukaudio.com](mailto:nobsound@doukaudio.com)
- WeChat/Whatsapp: +86-17704028602
- Address: Room 1329, Wang Cheng Building, Long Guan East Road, Long Hua District, Shen Zhen, Guang Dong, China, 518000

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## Introduction of Panels



- 1 Power on/off, mono/stereo mode switch
- 2 Bass/full-frequency output switch (SUB—Bass, FLAT—Full-frequency)
- 3 Power indicator
- 4 Bass cutoff frequency knob
- 5 Bass gain knob
- 6 Volume knob of AUX output
- 7 Main volume knob
- 8 RCA input (White—left channel, Red—right channel)
- 9 AUX output (Output bass or full-frequency signal depends on the inputs.)
- 10 Stereo banana speaker jacks (Red—positive, black—Negative; R—right channel, L—left channel)

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- 1 Mono banana speaker jacks
- 2 Power interface (DC 24-48V)

## Warm Tips

1. The kind of AUX output signal (bass or full-frequency) is determined by the input signal, and the AUX output with amplification.
2. The super bass and SW-FREQ knobs are only valid in SUB mode, invalid if you select FLAT mode.
3. Before use, please make sure that you have selected correct working modes, mono or stereo, sub or flat, or else the A100 won't work normally as you like.

## Operation Steps

1. Correctly connect one mono or one pair of speaker or subwoofer to the speaker jacks of the A100, the 3.5mm AUX output also supports to be connected to another amplifier, active subwoofer or speakers to build multi-channel system.
2. Connect the audio source to the RCA input of the A100 via high-quality cable.
3. Connect the power cord to the power interface of the A100 and then plug the power cable to the wall socket. According to the output you connected, toggle the switch from ON to Mono or Stereo position to turn it on.
4. According to the kind of speaker you connected, select the corresponding mode. For example, if the output is connected to the subwoofer, please select SUB mode; if connected to the full-frequency speaker, please select FLAT mode.
5. Play music on your audio source, and adjust the main volume to proper position. If connected to the subwoofer, the super bass and sw-freq knobs can be rotated to adjust the bass gain and cutoff frequency to achieve ideal listening experience.

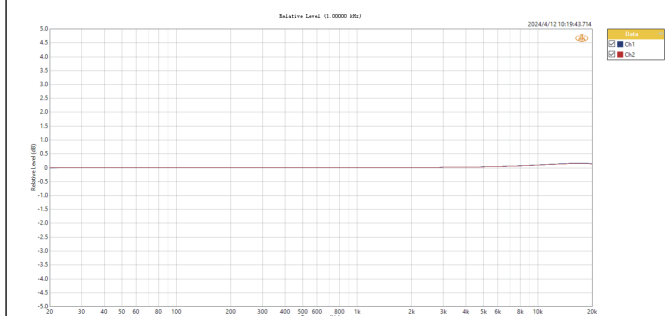
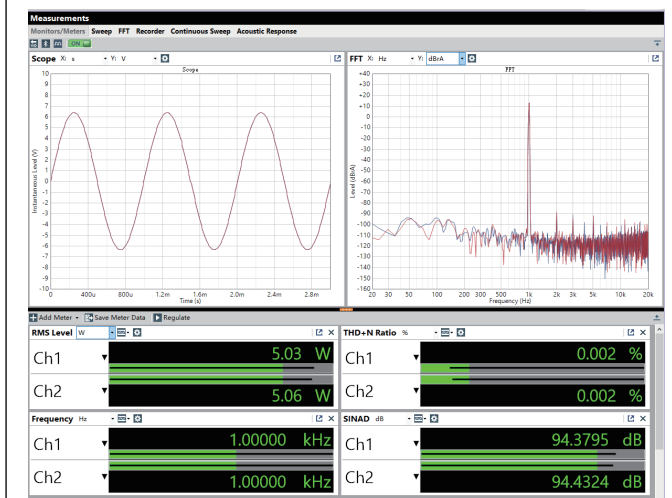
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6. After use, please toggle the switch to OFF position to turn the A100 off first and then disconnect the power adapter.

## Parameters

Brand	Douk Audio	
Model	A100	
Audio input	Sereo L/R RCA	
Audio output	Banana speaker jacks (mono / stereo) / 3.5mm AUX	
Working mode		
Modes and Connections	SUB	FLAT
Mono	One subwoofer	One full-frequency speaker
Stereo	Two subwoofers	One pair of full-frequency speakers
RMS output power in stereo mode	300W*2 (4Ω)	
RMS output power in mono mode	600W*1 (2Ω)	
Matched speaker impedance	2-8Ω (Mono)/4-8Ω (Stereo)	
RMS output level of AUX	2.8V	
Bass gain adjustment range	±6dB	
Bass cutoff frequency range	50-220Hz	
Input sensitivity	2V	
Frequency response	20Hz-20kHz (0.5dB)	
THD	0.002%	
SNR	≥115dB	
Dimensions (W*D*H)	149*142*60mm/5.87*5.59*2.36in	
Package dimensions (W*D*H)	295*225*85mm/11.61*8.86*3.35in	
Net weight	1136g/2.50lb	
Package weight	2.20kg/4.85lb	

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