

KGUSS TOPPING PA3s

KGUSS Topping PA3S Power Amplifier Instruction Manual

PRODUCT OVERVIEW

The KGUSS Topping PA3S is a high-performance Class D power amplifier designed for home audio systems. It features a fully balanced design with two MA12070 amplifier chips, offering robust power output and versatile input options. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your PA3S amplifier.

SETUP GUIDE

Connecting Power

Connect the provided power adapter to the DC26V input on the rear panel of the PA3S amplifier. Ensure the power adapter is connected to a suitable power outlet.

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Image: Rear view of the Topping PA3S amplifier, highlighting the DC26V power input port.

Connecting Speakers

Connect your passive speakers to the red (positive) and black (negative) speaker terminals on the rear of the amplifier. Ensure correct polarity for both left and right channels.

High output power

PA3s could output 80W x2 at 4ohm load, 10% THD+N. In higher standard of THD+N of 1%, output power will be 65W x2 at 4ohm load. The output power is enough to drive any bookshelf speakers and even some floor speakers.



Image: Rear view of the Topping PA3S amplifier, showing the speaker output terminals for left and right channels.

Input Connections

The PA3S supports both balanced (TRS) and single-ended (RCA) inputs. Connect your audio source to either the 'BAL' (TRS) or 'SE' (RCA) inputs. Use appropriate cables for your source.

2xMA12070 Fully balanced Class D amplifier

Each channel of PA3s uses one MA12070 Class D power amplifier chip. This allows separation in layout improving performance and reducing crosstalk. The power is shared across two chips, the heat dissipation is also halved for each chip, improving reliability and extending the lifespan of the product.

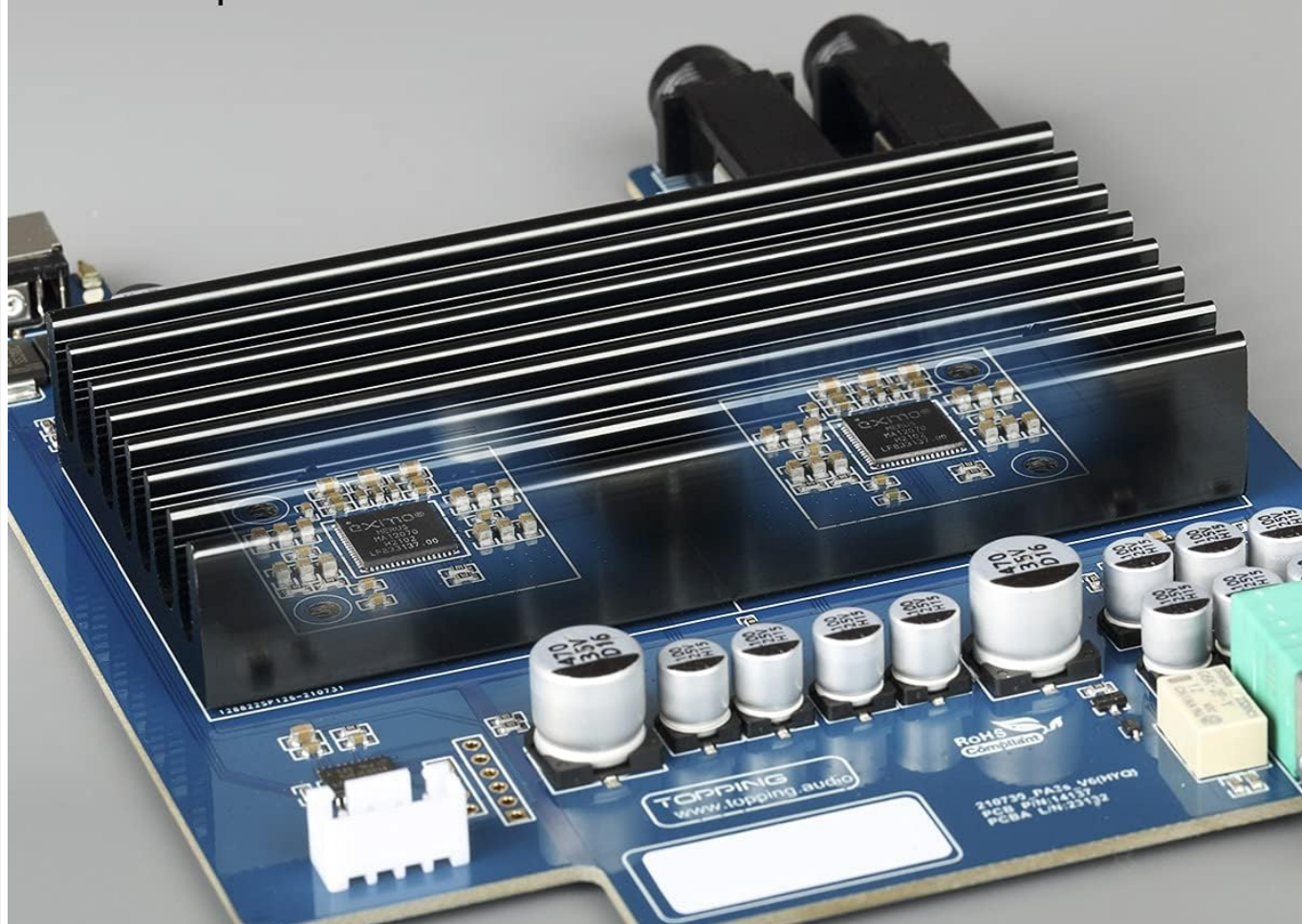


Image: Rear view of the Topping PA3S amplifier, displaying the RCA and TRS input jacks.

Your browser does not support the video tag.

Video: This video demonstrates the physical connections for the Topping PA3s, including power, speaker outputs, and input sources like RCA and TRS cables.

OPERATING INSTRUCTIONS

Power On/Off and Input Selection

Press the 'Select' button on the front panel to power on the unit or switch between the 'SE' (single-ended) and 'BAL'

(balanced) inputs. Press and hold the button to power off the amplifier.



Image: Front panel of the Topping PA3S amplifier, highlighting the power/select button and volume knob.

Volume Control

Turn the volume knob clockwise to increase the audio output level and counter-clockwise to decrease it.

MAINTENANCE

Cleaning

Use a soft, dry cloth to clean the exterior of the amplifier. Avoid using liquid cleaners or solvents, as they may damage the finish.

Ventilation

Ensure the amplifier is placed in a location with adequate ventilation to prevent overheating. Do not block the ventilation openings.

TROUBLESHOOTING GUIDE

Your browser does not support the video tag.

Video: This video provides a detailed troubleshooting guide for common issues encountered with the Topping PA3s power amplifier, including no sound, abnormal sound, and LED indicators.

Common Issues and Solutions

Phenomenon	Solution
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Phenomenon	Solution
Can't be turned on	• Check the power adapter. Only connect the power adapter to a power outlet, not to the unit. If the LED on the adapter blinks or does not light up, the adapter is defective. • Check the power connection. • The device did not power on. Check LED and the power connection.
No sound	• Check that the proper input source is selected. Press the left button on front panel to switch input channel. • Check the connections for all devices. • Insert connection cables all the way in. • Check the volume of all devices and whether they are muted. • May be caused by high temperature. Turn the power off, wait for the unit to cool down sufficiently, and then turn the power on again. Please place the unit in a place having good ventilation.
Abnormal sound	• One channel's positive output and negative output may be reversed, please check and correct it. • The cables may not be connected correctly, check and reconnect them. • Probably overloaded. Try turning down the volume. • Check to see if the problem is with the source, downstream equipment and cables.
One channel with noise/no output	• Check to see if the problem is with the source, downstream equipment and cables. • You can try swapping the left and right channel connections.
Sound interrupted and 2 LED flash	• Power voltage too high, PA3s starts over voltage protection. Please use TOPPING's power adapter. • PA3s overload then turn to protection mode. Output is closed to protect the speakers. Please turn down the volume and reboot PA3s.
High temperature. BAL LED flashes once and stops for 1s	• Turn the power off, wait for the unit to cool down sufficiently, and then turn the power on again. Please place the unit in a place having good ventilation.
BAL LED flashes twice and stops for 1s	• Too low load impedance or short-circuit load. • Check if the speaker cables are connected in place. (Note: when connecting the speaker cables, there can be no bare leakage of copper wire touching the metal enclosure.) • Check if you have followed the connections as per our instructions in user manual. • Check if the speaker cables are defective, try with other cables.

Phenomenon	Solution
SE LED flashes once/twice/three and stop for 2s	• Check the power adapter. Only connect the power adapter to a power outlet, not to the unit. If the LED on the adapter blinks or does not light up, the adapter is defective. • If the power adapter works and the problem still persists after disconnecting the other devices and restarting PA3s, the unit may be defective. Please contact us by mail.
Can the amp be used in bridged mode so that it can be used as a mono amp?	• The amplifier is already internally bridged. So you can't short any of the output terminals together.

TECHNICAL SPECIFICATIONS

Specification	Value
Voltage	48 Volts
Manufacturer	KGUSS
Maximum Supply Voltage	48 Volts
Mounting Type	Surface Mount
Brand	KGUSS
Number of Channels	2
Output Power	80 Watts
Package Type Name	box
Package Dimensions	10.98 x 7.95 x 2.99 inches
Item Weight	2.96 pounds
ASIN	B09LCTYHKQ
Item model number	TOPPING PA3s
Date First Available	May 9, 2020

PACKAGE CONTENTS

The following items are included in your Topping PA3S package:

- Topping PA3S Amplifier Unit
- AC to DC Power Adapter
- AC Power Cable
- User Manual
- Warranty Card

Spec

PA3s Power Amplifier specifications		
	SE IN	BAL IN
THD+N @1kHz (A-wt)	<0.0050% @4Ω 5W	<0.0045% @4Ω 5W
	<0.0040% @8Ω 5W	<0.0040% @8Ω 5W
THD @20-10kHz (20kBW)	<0.0080% @4Ω 5W	<0.0070% @4Ω 5W
	<0.0070% @8Ω 5W	<0.0060% @8Ω 5W
SNR @MAX OUT 1kHz (A-wt)	107dB	112dB
Dynamic Range @1kHz (A-wt)	107dB	112dB
Frequency Response	20Hz-40kHz (±0.1dB)	20Hz-40kHz (±0.1dB)
Output Level	46Vpp @4Ω	46Vpp @4Ω
	48Vpp @8Ω	48Vpp @8Ω
Noise (A-wt)	<70uVrms	<70uVrms
Channel Crosstalk @1kHz	-96dB	-100dB
Input sensitivity	0.92Vrms	1.75Vrms
Gain	25.2dB	19.5dB
Channel Balance	0.5 dB	0.5 dB
Output Power	80W x 2 @4Ω THD+N<10%	
	45W x 2 @8Ω THD+N<10%	
	65W x 2 @4Ω THD+N<1%	
	37W x 2 @8Ω THD+N<1%	
Adapter Impedance	4-8Ω	

Image: Visual representation of the Topping PA3S package contents.

Warranty Information

The product comes with a 12-month warranty covering quality defects. Please retain your proof of purchase for warranty claims.

Return Policy

A 30-day money-back guarantee is offered for any reason, ensuring customer satisfaction.

Contact Support

For any questions, technical assistance, or support, please contact HIFI College at HIFICOLLEGE@gmail.com.

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