SMSL SA-60

SMSL SA-60 Class D Digital Amplifier User Manual

Model: SA-60

INTRODUCTION

The SMSL SA-60 is a compact and powerful Class D digital amplifier designed to deliver high-fidelity audio. This manual provides essential information for the proper setup, operation, and maintenance of your amplifier, ensuring optimal performance and longevity.

Please read this manual thoroughly before using the product and retain it for future reference.

SAFETY INFORMATION

To prevent fire, electric shock, or product damage, please observe the following safety precautions:

- **Power Supply:** Use only the provided power adapter. Ensure the voltage matches the requirements specified on the adapter. Disconnect power during lightning storms or when unused for long periods.
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the unit to prevent overheating. Avoid placing the amplifier on soft surfaces that may block vents.
- **Liquid Exposure:** Do not expose the amplifier to rain, moisture, dripping, or splashing. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Heat Sources:** Keep the amplifier away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Opening the casing may expose you to dangerous voltage or other hazards.

Warning: This product contains small parts that could be a choking hazard. Keep out of reach of children.

PACKAGE CONTENTS

Verify that all items are present in the package:

- SMSL SA-60 Class D Digital Amplifier
- Power Adapter (DC24V)
- User Manual

PRODUCT OVERVIEW

Front Panel

This image displays the front panel of the SMSL SA-60 amplifier. Key features visible include the 'SELECT' button for input switching, 'INPUT 1' indicator, 'POWER' and 'INPUT' LED indicators, and a large 'LOUDNESS' knob for volume control. The model name 'SA-60 Class-D Amplifier' is also printed on the front.

1. **SELECT Button:** Press to power on/off (long press) or switch between audio inputs (short press).
2. **INPUT 1 Indicator:** Illuminates when Input 1 is selected.
3. **POWER LED:** Indicates the power status of the amplifier.
4. **INPUT LED:** Indicates the currently active audio input.
5. **LOUDNESS Knob:** Rotates to adjust the master volume level.

Rear Panel

This image shows the rear panel of the SMSL SA-60 amplifier. Visible connections include the DC24V power input, speaker terminals (R OUT, L OUT, Speakers), and RCA input jacks (R INPUT 2 L). Regulatory marks such as FC, CE, and RoHS are also present, along with 'Made in China'.

1. **POWER Input (DC24V):** Connects to the provided power adapter.
2. **SPEAKER Outputs:** Red and black binding posts for connecting passive speakers (Right and Left channels). Ensure correct polarity.
3. **INPUT 2 (RCA):** Analog audio input for external devices using RCA cables.

Overall Dimensions and Identifier

This image provides a top-down view and a side profile of the SMSL SA-60 amplifier. The top view highlights the compact design and the layout of the front panel controls. The side view shows the depth of the unit and a label with 'S.M.S.L AMP303060', which is a specific product identifier for the unit.

The amplifier's compact design allows for versatile placement. The label 'S.M.S.L AMP303060' indicates a unique product identifier or batch number.

SETUP

Connecting Speakers

Connect your passive speakers to the speaker output terminals on the rear panel. Ensure that the positive (+) terminal of the amplifier connects to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier connects to the negative (-) terminal of the speaker. The amplifier supports speakers with an impedance of 4-8 ohms.

Connecting Audio Sources

The SA-60 amplifier can connect to various audio sources. Refer to the diagrams below for common connection scenarios:

Notebook Tablet PC **MP3/MP4 Player** **Mobile Phone** **Any VCD, DVD, Decoder or Digital Media Players**

Anolog Signal

S.M.S.L

SELECT   INPUT 1   • POWER   • INPUT

SA-60 Class-D Amplifier   − LOUDNESS +

Hi-Fi Output

Drive the Speakers of 4-8 Ω

This diagram illustrates various connection methods for the SMSL SA-60 amplifier. It shows how to connect the amplifier to speakers and different audio sources such as a TV, DVD player, Notebook, Tablet PC, Mobile Phone, MP3/MP4 Player, and PS (PlayStation) using RCA to 3.5mm audio cables or 2RCA to 2RCA audio cables.

- **Input 1 (3.5mm):** For devices with a 3.5mm audio output, such as laptops, tablets, mobile phones, or MP3/MP4 players. Use a 3.5mm to 3.5mm audio cable.
- **Input 2 (RCA):** For devices with RCA audio outputs, such as DVD players, TVs, or other audio components. Use standard RCA cables.

SA60 Connect Instruction
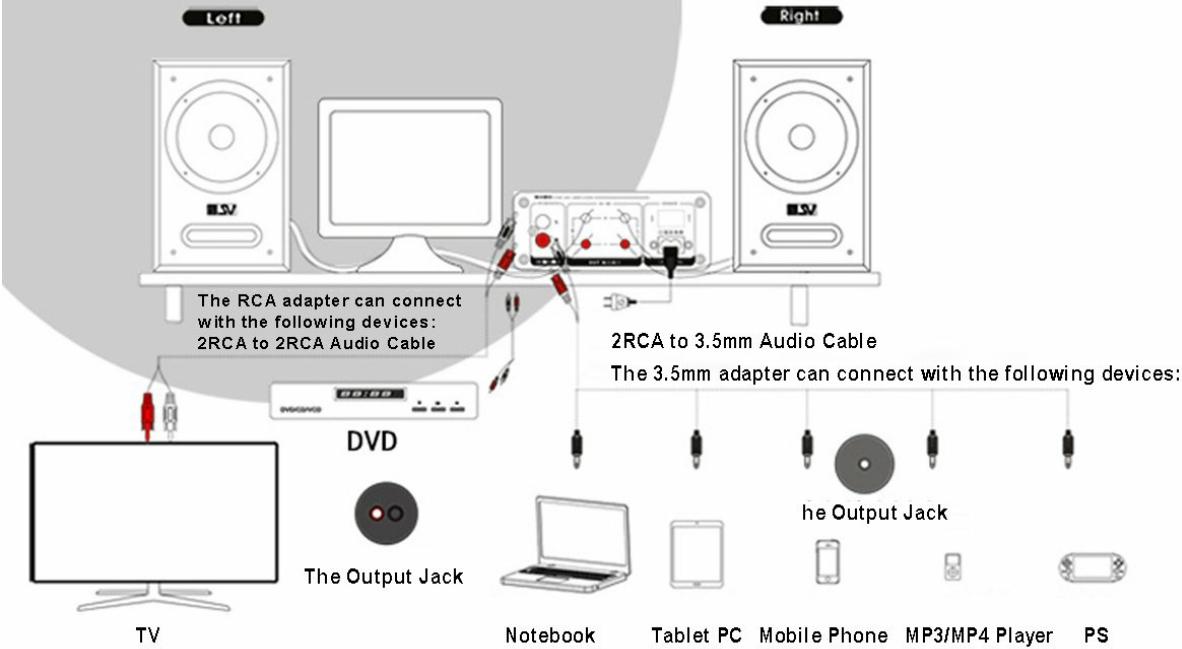
This diagram illustrates the overall audio signal flow. It shows various analog signal sources like Notebooks, Tablet PCs, MP3/MP4 Players, Mobile Phones, VCD/DVD/Digital Media Players connecting to the SMSL SA-60 amplifier. The amplifier then provides a Hi-Fi output to drive speakers with an impedance of 4-8 ohms.

Power Connection

Connect the provided DC24V power adapter to the 'POWER' input on the rear panel of the amplifier. Then, plug the power adapter into a suitable wall outlet. The amplifier is now ready for operation.

OPERATING INSTRUCTIONS

Powering On/Off

To power on the amplifier, briefly press the 'SELECT' button on the front panel. The POWER LED will illuminate. To power off the amplifier, press and hold the 'SELECT' button for a few seconds until the POWER LED turns off.

Selecting Input

After powering on, briefly press the 'SELECT' button to cycle through the available audio inputs (Input 1, Input 2). The INPUT LED will indicate the currently active input.

Adjusting Volume

Rotate the 'LOUDNESS' knob clockwise to increase the volume and counter-clockwise to decrease it. Adjust the volume to a comfortable listening level.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your SMSL SA-60 amplifier:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the amplifier. Do not use liquid cleaners, solvents, or abrasive materials, as they may damage the finish.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris. Ensure the amplifier has adequate space around it for proper airflow.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.

TROUBLESHOOTING

If you encounter issues with your SMSL SA-60 amplifier, refer to the table below for common problems and their solutions:

Problem	Possible Cause	Solution
No power	Power cable not connected securely; Power outlet faulty; Power adapter damaged.	Check power cable connection to amplifier and wall outlet; Try a different power outlet; Contact support if adapter is suspected faulty.
No sound output	Incorrect input selected; Volume too low; Speaker cables loose or incorrectly connected; Audio source not playing or faulty cable.	Press 'SELECT' to choose the correct input; Increase the 'LOUDNESS' knob; Verify speaker connections and polarity; Check audio source and cables.
Distorted sound	Volume too high (clipping); Speaker impedance mismatch; Faulty audio cable; Poor quality audio source.	Reduce volume; Ensure speakers are 4-8 ohms; Replace audio cable; Try a different audio source.
Unit gets hot	Insufficient ventilation; Prolonged high volume use.	Ensure amplifier has adequate space for airflow; Reduce volume or take a break from use. If overheating persists, contact support.

If the problem persists after attempting these solutions, please contact SMSL customer support or your local dealer for assistance.

SPECIFICATIONS

Detailed technical specifications for the SMSL SA-60 amplifier:

Feature	Detail
Model	SA-60

| Feature	Detail
Output Power	120 Watts (RMS)
Number of Channels	2 (Stereo)
Mounting Type	Surface Mount
Dimensions (L x W x H)	13.2 x 7.3 x 3 Centimeters
Product Weight	726 grams
Color	Black
UPC	674387772517
Manufacturer Part Number	SMSL SA-60 black
First Available Date	6 December 2016

WARRANTY AND SUPPORT
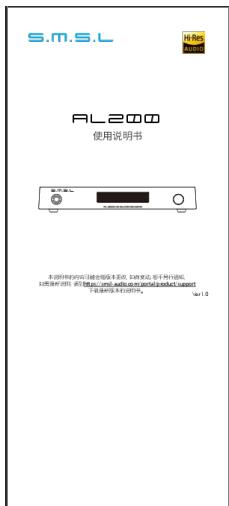
SMSL products are designed and manufactured to the highest quality standards. For detailed warranty information, including terms, conditions, and duration, please refer to the warranty card included with your product or visit the official SMSL website.
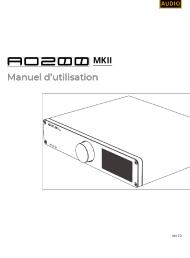
For technical support, product inquiries, or service requests, please contact your authorized SMSL dealer or visit the official SMSL support page. When contacting support, please have your product model number (SA-60) and purchase receipt ready.

Official SMSL Website: www.smsl-audio.com

Related Documents

[SMSL AL200 User Manual: High Resolution Power Amplifier](#)
Comprehensive user manual for the SMSL AL200 High Resolution Power Amplifier. This guide details safety precautions, warranty terms, product features, technical specifications, remote control operation, display interface, and MQA playback instructions.

SMSL SA300 User Manual - Hi-Res Audio Amplifier

User manual for the SMSL SA300 Hi-Res Audio Amplifier, covering specifications, features, remote control operation, display interface, settings, and warranty terms.

SMSL A50PRO Amplifier User Manual

User manual for the SMSL A50PRO amplifier, detailing its features, specifications, safety notes, warranty terms, and operating instructions.

SMSL AO200 MKII User Manual and Specifications

Comprehensive user manual and technical specifications for the SMSL AO200 MKII digital power amplifier, covering safety, functions, interface, remote control, Bluetooth usage, and compliance.

Documents - SMSL – SA-60
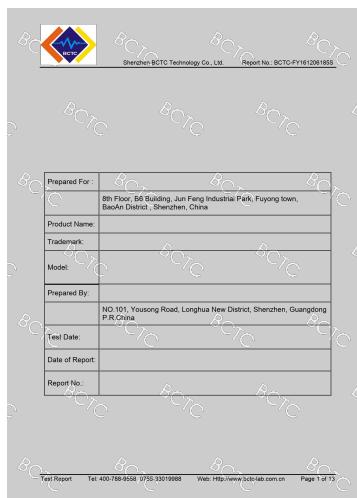
[pdf] Test Report

Shenzhen Shuangmusanlin Electronics Co Ltd Prepared For Dec 9 2016 · 1 These series appliances are Audio Power Amplifier Built in headphone amplifier They with the similar construction and circuit theory A105NrD0 tL images na ssl amazon I |||

Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-FY161206185S Shenzhen Shuangmusanlin Electroni ... rk: Model: Prepared By: SMSL , VMV SA-50 SA-50 plus, SA-36A Pro, SA-36A plus, SA-98E, SA-98E plus, **SA-60**,**SA-60** plus, SA-70, SA-70 plus, SA-160, SA-160 plus, Q5 PRO, A1, A2, A3, A5, AD13, AD15 ,AD16, ...

lang:en score:11 filesize: 1.76 M page_count: 13 document date: 2016-12-09

CE/EMC TEST REPORT

For

Shenzhen Shuangmusanlin Electronics Co., Ltd.

Product Name:	Digital Amplifier
Trademark:	SMSL ,VMV
Model Number:	A8 Q5 PRO, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, AD13, AD15, AD16, AD18, AD19, AD120, AD21, AD22, AD29, DP1, DP2, DP3, DP5, DP6, DP9, P1, P2, P3 P5, SA-36A PRO, SA-36A PLUS, SA-98E, SA-98E PLUS, SA-160, Sanskrit lps, SA-50, SA-50 PLUS, SA-60, SA-60 PLUS
Prepared For:	Shenzhen Shuangmusanlin Electronics Co., Ltd.
Address:	8th Floor B6 Building Jun Feng Industrial Park, Fuyong town, BaoAn District Shenzhen, China
Prepared By:	Shenzhen BCTC Technology Co., Ltd.
Address:	NO.101, Yousong Road, Longhua New District, Shenzhen, Guangdong, P.R.China
Report No.:	BCTC-FY161206770E

[pdf] Decleration of Conformity Test Report

55013 Jade CE EMCTESTREPORT images na ssl amazon ShenzhenBCTCTechnologyCo Ltd ReportNo BCTC FY161206770E EMCReport Tel 400 788 9558 0755 33019988 Web Http bctc lab cn Page1of39 C15tBHeqGuS I

Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-FY161206770E CE/EMC TEST REPORT For Shenzhen S ... , P2, P3 P5, SA-36A PRO, SA-36A PLUS, SA-98E, SA-98E PLUS, SA-160, Sanskrit lps, SA-50, SA-50 PLUS, SA-60, SA-60 PLUS Prepared For: Shenzhen Shuangmusanlin Electronics Co., Ltd. Address: 8th Floor ... lang:en score:10 filesize: 4.06 M page_count: 39 document date: 2017-01-11