



A60 TWO-CHANNEL POWER AMPLIFIER

User Guide



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Issue: A60/2

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This guide was produced by
Human-Computer Interface Ltd.
<http://www.interface.co.uk>

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WELCOME!

Dear Music Enthusiast,

Congratulations on selecting your new PRIMARE product, and thank you for choosing the PRIMARE 60-series Reference Class.

This user guide explains how to set up the unit for the best sound quality, and operate the unit to enjoy the music from all your sources.

To get support and assistance not covered by this guide please contact your local authorised Primare dealer, or visit our website at www.primare.net.



GETTING STARTED

1 UNPACK THE A60

Your A60 is supplied with the following components:

- Trigger cable.
- Mains cable.
- One pair of white gloves.

Please use the gloves when handling the unit to avoid leaving fingerprints.

If any of these are missing please contact your supplier. We recommend you retain the packaging in case you need to transport the unit at a later date.

2 POSITIONING

For BEST results position the A60 on a stable audio rack.



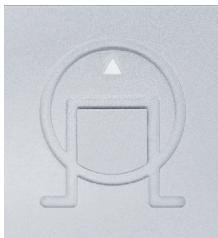
WARNING: Leave a space of at least 50mm around the sides and top of the amplifier to allow adequate ventilation.

The on/off switch is on the back panel.

Standby switch/indicator

- Press the logo on the front panel to switch the A60 between standby and on.

The front-panel indicator shows the standby/on status:



- Low intensity indicates standby.
- Bright indicates on.

3 CONNECT SPEAKERS

The A60 is designed to be connected directly to two loudspeakers.

The terminals can accept speaker cables terminated with spade terminals or banana plugs.

To connect to two loudspeakers

- Connect the LEFT SPEAKER + and – terminals to the appropriate terminals on the left speaker.
- Connect the RIGHT SPEAKER + and – terminals to the appropriate terminals on the right speaker.

For best results with single-wire connections use the lower pair of terminals.

To bi-wire to two loudspeakers

The A60 provides two pairs of loudspeaker terminals for each channel, to allow you to connect to the treble and bass units of each speaker using separate cables.

- Connect one pair of the LEFT SPEAKER + and – terminals to the treble unit on the left speaker.
- Connect the other pair of the LEFT SPEAKER + and – terminals to the bass unit on the left speaker.
- Wire the right speaker in a similar way.

For best results when bi-wiring use the lower pairs of terminals for the mid/high units and the upper pairs of terminals for the bass units.

4 CONNECT INPUTS

- Connect the A60 to each channel of the preamplifier or processor using either the unbalanced RCA input, or the balanced XLR input, as appropriate.
- Put the **INPUT** switch in the appropriate position for the inputs you are using.

If you are using the RCA inputs use high quality stereo RCA leads.

If you are using the XLR inputs use balanced XLR cables.

5 CONNECT POWER

Connect the power connector on the back panel to your power outlet using the mains cable supplied with the A60.

If this cable is not suitable for your power outlets please contact your supplier for an alternative cable.

See *Best sound*, page 8, for information about getting the best sound from your A60.



WARNING: Before connecting power check that the required supply voltage, indicated on the back panel, corresponds to your local AC supply.

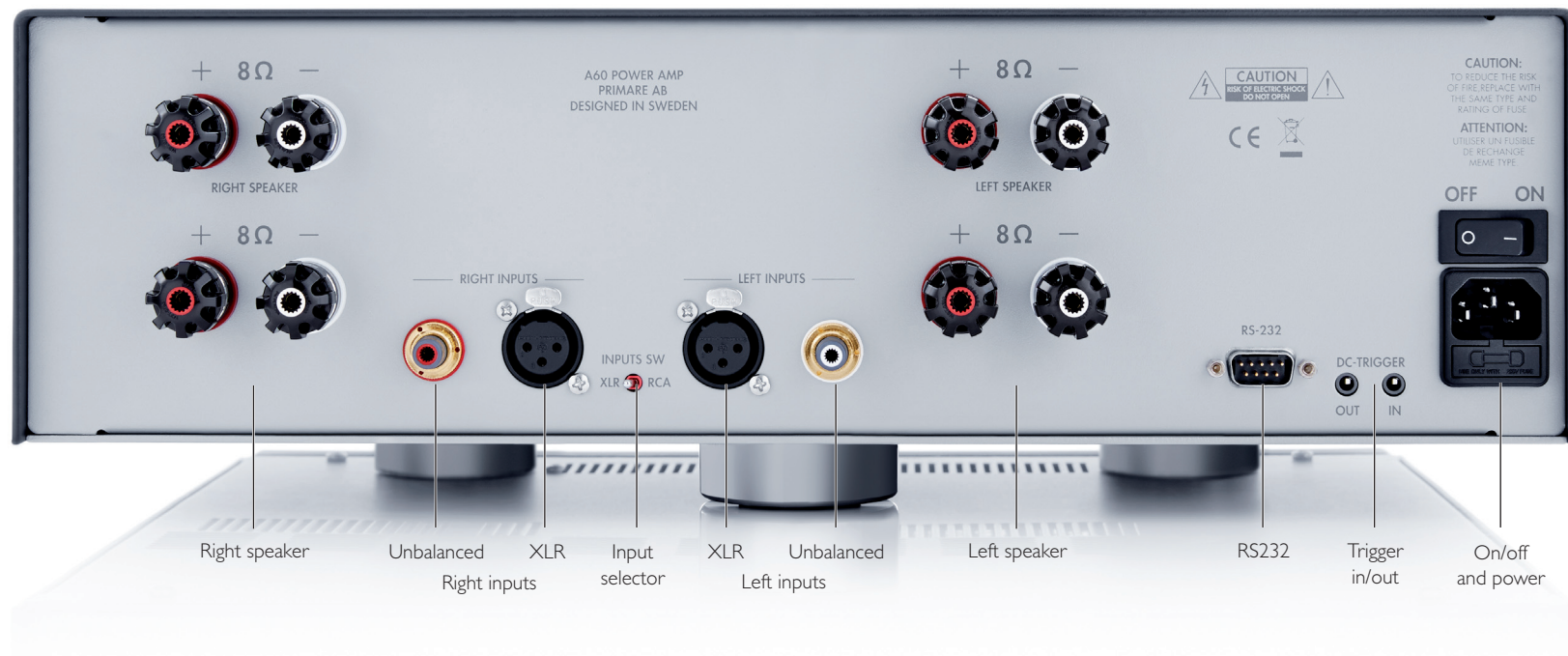
If a different voltage is stated on the type plate do not connect the amplifier to the mains power, and seek advice from your dealer.



WARNING: Always disconnect the A60 from the mains power before connecting or disconnecting any cables.

BACK-PANEL CONNECTIONS

The following diagram explains the function of each of the connectors on the back panel:



TECHNICAL SPECIFICATION

OUTPUTS

Power

2 x 250W / 8Ω (both channels driven), max 610W.

2 x 500W / 4Ω (both channels driven), max 1230W.

Note: Although the loudspeaker terminals are labelled 8Ω on the back panel this is for regulations only, and the A60 is perfectly suitable for use with 4Ω speakers.

Distortion

THD+N

Output impedance

0.01Ω.

INPUTS

2 x RCA, 2 x XLR switchable

Input impedance

20kΩ.

PERFORMANCE

Gain

26dB unbalanced, 20dB balanced

Frequency response

20Hz – 20kHz, -0.5dB

THD+N

<0.02% (1kHz 250W 8Ω)

<0.002 (10W 8Ω).

Signal to noise ratio

20Hz – 20kHz unweighted -105dBV

GENERAL

Power consumption

Standby: 0.5W, Operate: 32W.

Control

1 x 12V trigger input

1 x 12V trigger output

1 x RS232

Colour

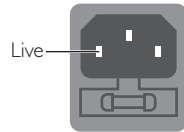
Two-tone or black

ADDITIONAL INFORMATION

BEST SOUND

The phase of the AC supply can make a significant difference to the sound.

Ensure that the live pin of the AC power cable is connected to the left-hand pin of the power connector, viewed from the back panel:



BURN-IN

Your Primare will sound best after an initial burn-in of approximately 24 hours.

You will notice a further smaller improvement in sound quality for at least another 3 days' playing.

RS232

The RS232 input allows you to connect the A60 to a controller system. For more information please contact Primare or visit www.primare.net.

TRIGGER INPUT/OUTPUT

The trigger input and output allow you to link your Primare products together, using the trigger cable supplied with each product, so they switch on or to standby in sync with the PRE60.

To link the PRE60 to a Primare source

- Connect the trigger cable from the PRE60 TRIG OUT to the source TRIG IN.
- If necessary, configure the source to **TRIG ON**.

To link the Primare source to the A60

- Connect the trigger cable from the source TRIG OUT to the A60 TRIG IN.

To link two A60 amplifiers for bi-amping

- Connect the trigger cable from the first A60 TRIG OUT to the second A60 TRIG IN.

Safety compliance

This product has been designed to meet the IEC 60065 international electrical safety standard.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

ATTENTION

RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR



The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: To reduce the risk of electrical shock do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions.

1. Take heed of warnings & instructions

You should read all the safety and operating instructions before operating this appliance. Retain this handbook for future reference and adhere to all warnings in the handbook or on the appliance.

2. Water and moisture

The presence of electricity near water can be dangerous. Do not use the appliance near water – for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

3. Object or liquid entry

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid-filled objects such as vases should not be placed on the equipment.

4. Ventilation

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. We recommend a minimum distance of 50mm around the sides and top of the appliance to provide adequate ventilation.

5. Heat

Locate the appliance away from naked flames or heat producing equipment such as radiators, stoves or other appliances (including other amplifiers) that produce heat.

6. Climate

The appliance has been designed for use in moderate climates.

7. Racks and stands

Only use a rack or stand that is recommended for use with audio equipment. If the equipment is on a portable rack it should be moved with great care, to avoid overturning the combination.

8. Cleaning

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, damp, lint-free cloth. Do not use paint thinners or other chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause indelible white marks if the unit is subsequently wiped with a damp cloth.

9. Power sources

This appliance must be connected to a mains socket outlet using the supplied power cord. To disconnect this apparatus from power, you must disconnect the power cord. Make sure the power cord is always easily accessible.

Only connect the appliance to a power supply of the type described in the operating instructions or as marked on the appliance.

This is a Class 1 device and **must** be earthed.

The power switch is a single-pole switch. When the switch is in the "Off" position, the appliance is not completely disconnected from the main power.

10. Power-cord protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, and the point where they exit from the appliance.

11. Grounding

Ensure that the grounding means of the appliance is not defeated.

12. Power lines

Locate any outdoor antenna/aerial away from power lines.

13. Non-use periods

If the unit has a stand-by function, a small amount of current will continue to flow into the equipment in this mode. Unplug the power cord of the appliance from the outlet if left unused for a long period of time.

14. Abnormal smell

If an abnormal smell or smoke is detected from the appliance, turn the power off immediately and unplug the unit from the wall outlet. Contact your dealer immediately.

15. Servicing

You should not attempt to service the appliance beyond that described in this handbook. All other servicing should be referred to qualified service personnel.

16. Damage requiring service

The appliance should be serviced by qualified service personnel when:

- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the appliance, or
- C. the appliance has been exposed to rain, or
- D. the appliance does not appear to operate normally or exhibits a marked change in performance, or
- E. the appliance has been dropped or the enclosure damaged.

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