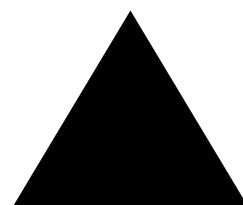

User guide

A100Q

Four channel digital amplifier



AMINA

IMMERSIVE INVISIBLE SOUND

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Important safety instructions (EN)



CAUTION: The exclamation mark is to draw your attention to important instructions and safety procedures in this manual.



ATTENTION: The lightning flash warns you of the risk of electrical shock presented by components inside this product. Unauthorised personnel must not open this unit.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings.

Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarised or grounding type plug. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer.

Unplug the apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains etc.

The product must not be exposed to dripping and splashing and no object filled with liquids such as a vase of flowers should be placed on the product.

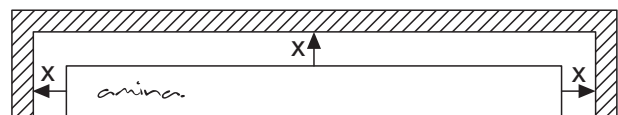
No naked flame sources such as candles should be placed on the product.

The appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

CAUTION: to reduce the risk of electric shock, grounding of the center pin of this plug must be maintained.

Minimum clearance around the apparatus for sufficient ventilation;

$$X > 50\text{mm (2")}$$



The use of apparatus in moderate climates;

$$0^{\circ}\text{C} < T_{\text{AMB}} < 35^{\circ}\text{C} \text{ (32}^{\circ}\text{F} - 95^{\circ}\text{F)},$$

$$15\% < \text{RH} < 70\%.$$

FCC notice

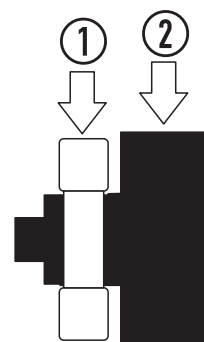
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Mains fuse

The mains fuse is located in a holder next to the AC inlet. To open the holder, remove the Power cord and use a small screwdriver to lever out the fuseholder, shown below.



The mains fuse ① is clipped into the end of the fuseholder and a spare fuse ② is also included inside the fuseholder.

Replace the fuse only with the same type

When set to 220-240V~ - T2.5AL/250V

When set to 110-120V~ - T5AL/250V

Never dismantle the A100Q, there are no user serviceable parts inside the unit.

UK fused plug

The power cord supplied with the A100Q in the UK (only) includes a fused plug.

In the event of failure, the fuse should only be replaced with the same 5A rating.

Service

There is no requirement to service the A100Q on a regular basis.

Configuration updates may become available over time for new Amina speaker models. Details of any updates will be published on the Amina website www.aminasound.com.

Repair

In the unlikely event that your A100Q needs repair work, contact your supplier or your local distributor.

Importantes informations de sécurité (FR)



AVERTISSEMENT : le point d'exclamation est utilisé pour attirer votre attention sur les instructions et procédures de sécurité importantes de ce manuel.



ATTENTION : le symbole de l'éclair vous avertit du risque d'électrocution présenté par les composants de ce produit. Cet appareil ne doit être démonté que par du personnel autorisé.

Veuillez lire ces instructions.

Veuillez conserver ces instructions.

Veuillez respecter tous les avertissements.

Veuillez suivre toutes les instructions.

Ne pas utiliser cet appareil à proximité d'eau.

Le nettoyer avec un chiffon sec uniquement.

Ne pas obstruer les orifices de ventilation. Procéder à l'installation, conformément aux instructions du fabricant.

Ne pas installer à proximité de sources de chaleur, telles que des radiateurs, des bouches d'air chaud, des cuisinières ou autres appareils (y compris des amplificateurs) produisant de la chaleur.

Ne pas détériorer le dispositif de sécurité de la prise polarisée ou de terre. Une prise de terre possède deux contacts, plus une mise à la terre. La broche la plus large ou la troisième fiche de mise à la terre est fournie pour votre sécurité. Si cette fiche ne correspond pas à votre prise, veuillez consulter un électricien pour remplacer la prise obsolète.

Évitez de marcher ou de pincer le cordon d'alimentation, en particulier au niveau des fiches, des prises de courant et des connecteurs de l'appareil.

Utiliser uniquement les accessoires spécifiés par le fabricant.

Débrancher l'appareil en cas d'orage ou pendant de longues périodes d'inactivité.

Confier toute révision à du personnel qualifié. L'appareil doit être réparé lorsqu'il a été endommagé, comme lorsque le cordon d'alimentation est abîmé, un liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, l'appareil ne fonctionne pas normalement ou est tombé.

Il convient que l'aération ne soit pas gênée par l'obstruction des ouvertures d'aération par des objets tels que journaux, nappes, rideaux etc.

Le produit doit être protégé de toute goutte ou éclaboussure et aucun objet rempli de liquides, tel qu'un vase à fleurs, ne doit être placé sur ce dernier.

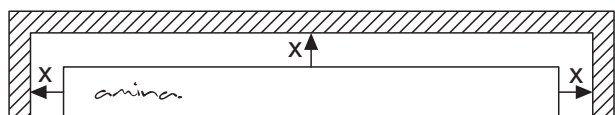
Aucun objet incandescent, tel que des bougies allumées, ne doit être placé sur le produit.

La prise du secteur est utilisé pour déconnecter le système. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.

Un appareil avec la borne de terre de protection doit être connecté au secteur avec la connexion de terre de protection.

Distance minimale autour de l'appareil pour une aération suffisante;

$$X > 50\text{ mm (2")}$$



Si l'appareil est destiné à être utilisé sous un climat tempéré;

$$0^{\circ}\text{C} < T_{\text{AMB}} < 35^{\circ}\text{C} (32^{\circ}\text{F} - 95^{\circ}\text{F}),$$

$$15\% < \text{HR} < 70\%.$$

AVIS FCC

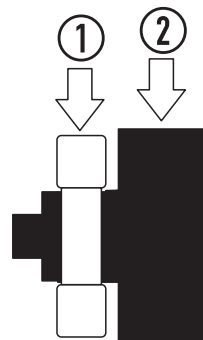
REMARQUE : Cet équipement a été testé et jugé conforme aux limites requises pour un dispositif numérique de Classe B, conformément au point 15 des règlements FCC. Ces limites ont été conçues pour procurer une protection raisonnable contre les interférences dangereuses dans une installation résidentielle. Cet équipement génère, utilise et peut émettre une énergie radioélectrique, et s'il est installé ou utilisé sans égard aux instructions, peut causer des interférences dangereuses sur les communications radio. Cependant, il n'existe aucune garantie que les interférences ne se produiront pas dans une installation donnée. Si cet équipement ne cause pas d'interférences dangereuses pour réception de radio ou de télévision, qui peuvent être déterminées en éteignant et rallumant l'équipement, l'utilisateur est encouragé à tenter de corriger les interférences à l'aide d'une ou plusieurs des mesures suivantes :

- Réorienter ou repositionner l'antenne de réception.
- Éloigner l'équipement du récepteur.
- Brancher l'équipement dans une prise sur un circuit différent de celui du récepteur.
- Consulter le revendeur ou un technicien radio/TV pour obtenir de l'aide.

Tout changement ou modification qui n'est pas expressément approuvé par le fabricant pourrait entraîner la révocation de l'utilisation de l'équipement par l'utilisateur.

Fusible

Le fusible principal (1) est situé dans un compartiment situé près de l'embase secteur. Pour ouvrir ce compartiment, enlever le cable secteur puis, utilisez un tournevis plat de petite taille en procédant comme sur le schema ci-dessous.



Le fusible principal est situé à l'extrémité du support. Un fusible de rechange (2) est situé dans le logement prévu à cet effet.

Ne remplacer le fusible que par un modèle identique:

Si la tension est de 220-240V~ le fusible est du type T2.5AL/250V

Si la tension est de 110-120V~ le fusible est du type T5AL/250V

Ne jamais démonter le A100Q sachant qu'aucune intervention n'est possible par l'utilisateur

Entretien

Dans le cadre d'un usage normal, aucune intervention ne doit être faite à l'intérieur du A100Q.

Si d'éventuelles mises à jour étre effectuées vis à vis de futures évolutions au sein de la gamme des enceintes Amina, les informations nécessaires seront disponibles sur le site www.aminasound.com.

Service après vente

En cas de panne de votre A100Q, nous vous invitons à contacter votre distributeur Amina local.

Introduction

The Amina A100Q power amplifier provides four speaker channels and two line outputs.

The A100Q also includes a fully configurable DSP which can be configured to fully protect many different models of Amina invisible speakers. When using the A100Q amplifier to drive Amina invisible speakers it is not necessary to include an Amina APU protection/crossover unit in the system.

Despite its huge power output and advanced features, the A100Q is contained within the slim footprint of a standard 1U case.

NOTE: The A100Q is a versatile power amplifier that can be optimised by an installer to drive all models of Amina invisible panel speaker systems and Amina passive subwoofers. The A100Q is equally suitable for use with other types of in-wall speakers and free-standing cabinet speakers, and in this application can be configured with or without equalisation and power limiting parameters as required when programmed.

Unpacking

Unpack the unit and check that the carton contains all the contents listed in the next column.

Retain this User Guide. If you pass the unit on to a third party make sure you pass on the User Guide.

Retain the packaging. If you dispose of it, do so having regard to any recycling regulations in your area.

Contents

The carton should contain (see drawing overleaf):

- A100Q amplifier
- Power cable*
- DC trigger plug
- Feet
- Fixings for 19" rack (fitted to A100Q)

*Type and number of power cables supplied depends on market.

If any items are missing or damaged, contact your supplier immediately.

Location

Rack mounting

The A100Q is intended to be mounted in a 19" rack with other audio components such as sources, preamplifier etc.

The unit is fixed to the rack with four screws through the front mounting flanges.

Locations near the bottom of the rack are best where the air will be cooler.

It is acceptable to stack A100Q amplifiers in a rack, but 1U vented blanking plates are recommended between adjacent amplifiers or any other component that will radiate heat.

If continual, high power operation is anticipated, consider installing the system in a force-cooled rack that includes fans.

Free-standing

The A100Q is also suitable for free-standing use.

Stick the supplied feet to the base of the amplifier before use.

Find a location for the amplifier that is flat and stable, near a power connection and where connecting cables will not become a trip hazard.

Ensure that there is a clearance of 50mm around the top and sides of the amplifier to allow air to circulate.

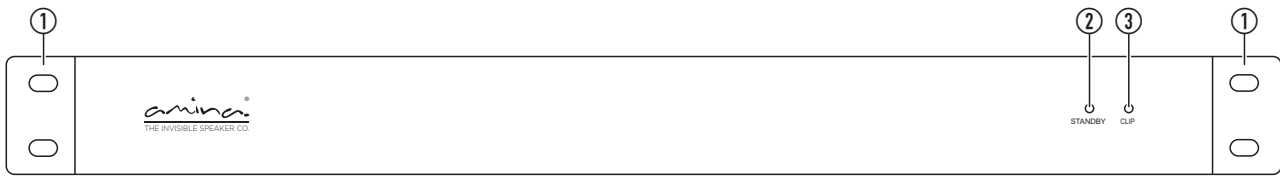
Temperature and humidity

The A100Q should operate in an ambient temperature range of 0° and 35°C (32° and 95°F) and relative humidity between 15% and 70%.

If relative humidity exceeds 80%, the amplifier should be disconnected from mains power.

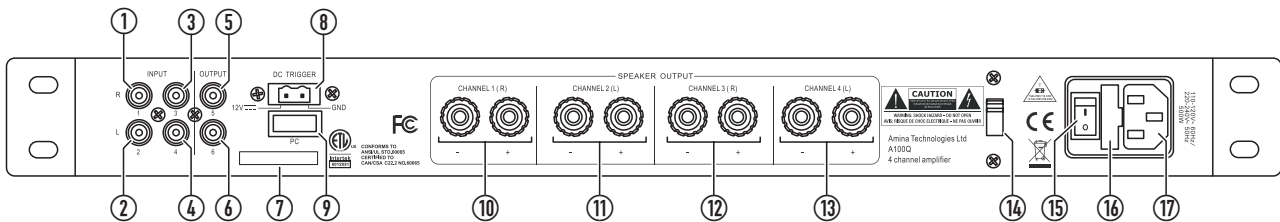
To achieve maximum performance and reliability, ideal operating conditions for the A100Q are within a temperature range of 20° and 26°C (68° and 79°F) and relative humidity between 45% and 55%. This range is often achievable by considering the environment around the amplifier and arranging additional fan cooling if necessary.

Front



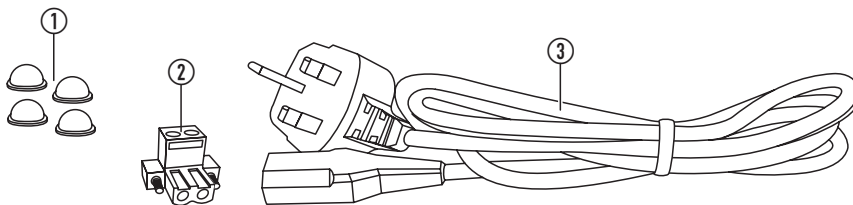
- | | |
|-------------------------|-------------------|
| 1. Rack fixing brackets | 3. Clip indicator |
| 2. Standby indicator | |

Back



- | | |
|-----------------------------|------------------------------|
| 1. Input 1 (right channel) | 10. Output channel 1 (right) |
| 2. Input 2 (left channel) | 11. Output channel 2 (left) |
| 3. Input 3 (right channel) | 12. Output channel 3 (right) |
| 4. Input 4 (left channel) | 13. Output channel 4 (left) |
| 5. Output 5 (right channel) | 14. Voltage selector |
| 6. Output 6 (left channel) | 15. Power switch |
| 7. Serial number label | 16. Mains fuse |
| 8. DC trigger connector | 17. Power inlet |
| 9. Configuration port | |

Accessories



- Feet
- DC 12V plug
- Power cable (5A fused for the UK).

NOTE: UK Power cable shown in illustration. Additional / alternative Power cables may be supplied depending on market destination.

Installation

Suitable sources

The A100Q does not include a preamplifier so the connected source must be a preamplifier or mixer that includes a volume control. The A100Q is not suitable for direct connection to sources such as CD players unless they include a volume control.

Using the four channels

The A100Q includes four separate power amplifiers and it is possible to change the channel setup when configuring the A100Q. For example, a two channel stereo source may be set to feed all four speaker channels.

Typical system configurations may include -

- Two stereo zones.
Stereo systems in two rooms, driven by a single A100Q.
- A four speaker stereo zone.
- A four speaker stereo zone with slave amplifier driving up to four subwoofers (requires 2 x A100Q).
A stereo system for larger rooms with bass reinforcement.
- A stereo zone with one or two optional subwoofers.
A standard stereo system with optional bass reinforcement.
- High-end two-way panel system bi-amplified.
'Pro' system where the A100Q drives bass and treble panels independently.
- A four subwoofer system.
This will probably be a Home Cinema system where the '.2' subwoofer channels route system bass frequencies and LFE channel to four subwoofers via an A100Q.

Connecting sources

Caution

To protect your speakers, always ensure that the A100Q and other audio system components are disconnected from mains power when making or changing any connections. Connect mains power to the system when all other connections are complete, setting the volume low initially.

Sources are connected using audio phono cables.

Most cables will have colour-coded plugs for right (red) and left (white) channels.

A single stereo source

- Connect the right and left channel outputs from the preamplifier or mixer to the right (1) and left (2) inputs of the A100Q.

Twin stereo sources

- Connect the right and left channel outputs from the first preamplifier or mixer to the right (1) and left (2) inputs of the A100Q.
- Connect the right and left channel outputs from the second preamplifier or mixer to the right (3) and left (4) inputs of the A100Q.

Single channel (mono) sources

- Connect each channel to one of the numbered inputs, 1-4.

Installation

Speaker connection cautions

Speaker type configuration



During configuration, each channel of an A100Q amplifier will be set to match a particular type of Amina invisible speaker or subwoofer.

When wiring A100Q amplifiers into an installation it is very important to identify which speaker or subwoofer type has been assigned to each individual channel. Connection of a speaker or subwoofer to the wrong channel could cause damage to the speaker or subwoofer.

Speaker protection

The configuration profiles for the A100Q include speaker protection. It is not necessary to include separate Amina APU speaker protection units when installing the A100Q, as long as appropriate configuration profiles have been set.

NOTE: Use of an amplifier in an installation without the correct configuration profile will void the warranty for the system speakers.

100/70V line systems

The A100Q is designed to connect to low impedance speakers in the range 4Ω - 8Ω . It will **not** drive speakers in a 100/70V line system.

Series/Parallel connection

Series parallel connection of speakers is not recommended. If more speaker channels are required, install one or more additional A100Q amplifiers.

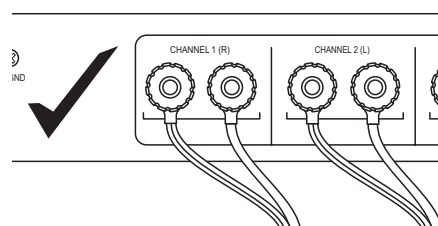
BTL amplifier

The A100Q uses a BTL amplifier design.

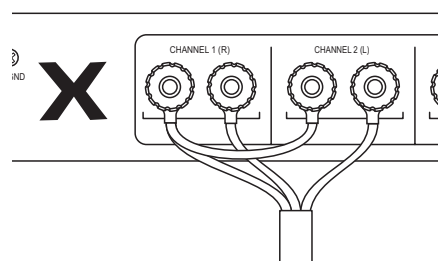


This arrangement is compatible for connection to any type of passive speaker or passive subwoofer, but the following cautions **MUST** be observed:

- **Each speaker must be wired to the amplifier via separate 2 core cables.**



Never wire two channels to the amplifier via 3-core cable with a common ground.



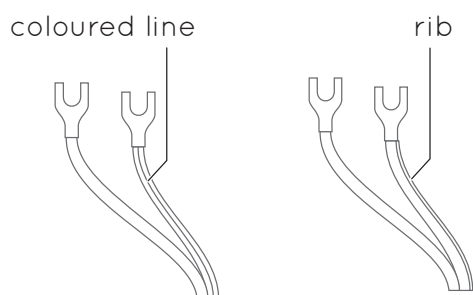
- **The A100Q is not suitable for connection to equipment that may have common input grounds. This may include switch boxes and active subwoofers that have connections intended to be connected to both right and left speakers.**

Installation

Speaker connection

Polarity

Speaker cable polarity must be observed at all times. Cables will be marked with a coloured line or have a moulded rib on one edge.



By convention this wire is the + (positive) wire. The unmarked wire is the - (negative) wire.

The polarity marking can be used to ensure that the + and - terminals of each speaker is connected to the matching + and - terminals of the A100Q.

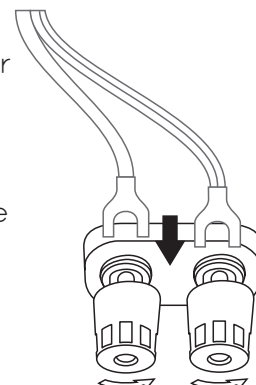
Speaker terminals

The multi-way speaker terminals are compatible with the most common types of speaker connection including spade lugs or twisted bare wires.

Spade lugs provide the best quality connection.

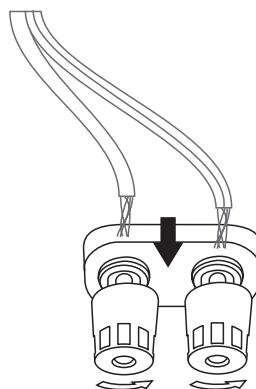
Connecting spade lugs

- Unscrew the speaker terminal knob.
- Place the spade lug under the terminal knob and tighten the knob to retain the lug.
- Repeat for the other speaker wires.



Connecting bare wires

- Twist the ends of each wire together.
- Unscrew the speaker terminal knob to expose the cross-hole.
- Pass the twisted wire through the cross-hole.
- Tighten the knob to retain the wire.
- Repeat for the other speaker wires.



Confirm that there are no loose wire strands that may touch other terminals and cause a short circuit.

Installation

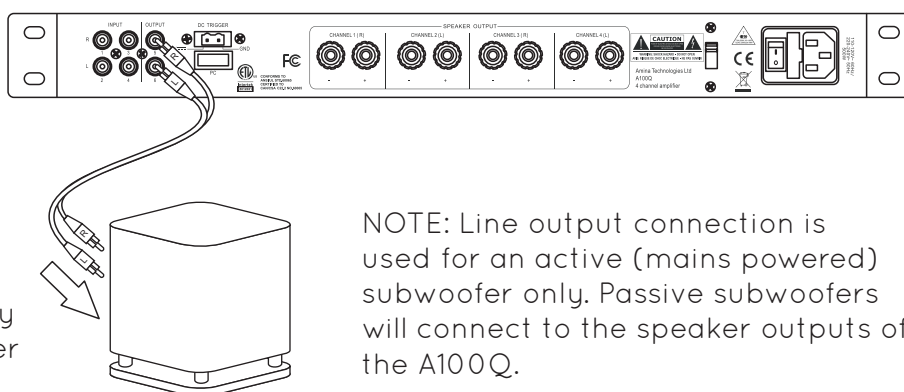
Using the line output

The line output can be used to drive an active subwoofer or to slave a further A100Q to drive more speaker channels. Other types of slave amplifier may be connected to the line out terminals, but will require gain matching and external protection modules. Contact Amina technical support for more details.

During configuration (using an external computer) it is possible to select which sources route to the line output and to set attenuation and signal processing for the line output.

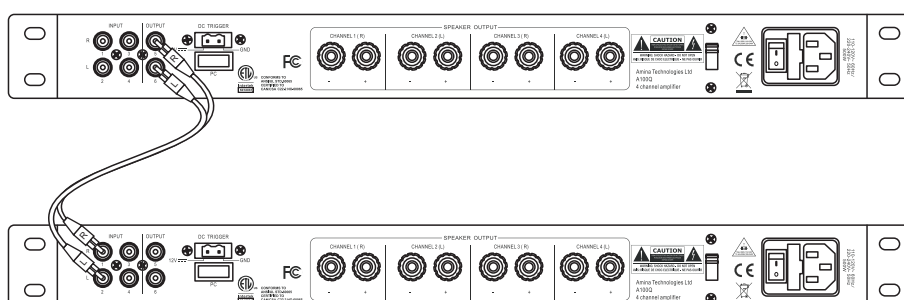
Connecting active subwoofers

- Connect a phono cable from the right (5) and left (6) line outputs to the right and left line inputs of a stereo subwoofer. Mono subwoofers may be connected to either or both outputs.



Connecting a second amplifier

- Connect a phono cable from the right (5) and left (6) outputs to the right (1) and left (2) inputs of the second amplifier.



DC Trigger

If the A100Q is to be installed with source components that provide a 12V trigger feed to activate power amplifiers etc, this may be connected to switch the A100Q out of standby automatically.

A 2-pin plug for the DC trigger connector is supplied with the A100Q.

- Observing polarity, make up a cable with the 2-pin plug and termination compatible with the trigger source.
- Connect the cable between the source and the A100Q.

Operation

Setting the mains voltage

The A100Q should be supplied preset for the mains voltage in your area, however you should always check the mains voltage setting before first connecting power to the A100Q.

Checking the voltage setting

- Locate the voltage selector on the back panel and check the voltage marked on the selector.

The 230V setting will cover voltages in the range 220V - 240V.

The 115V setting will cover voltages in the 100V - 120V range.

Changing the voltage setting

If the mains voltage setting is incorrect.

- With a small screwdriver or similar, slide the voltage selector to the correct setting for mains voltage supplied in your area.

NOTE: If the mains voltage setting is changed, the mains fuse must also be changed to the correct rating. Refer to page 3 for more details.

Power connection

When you are satisfied that all connections have been correctly made, power can be applied to the system.

- Check that the power switch on the back panel is set to the '0' (OFF) position.
- Multiple power cables may be supplied. Using the power cable that is compatible with your power outlets, connect the power cable to the AC inlet on the back panel.
- Connect the cable plug to a convenient mains outlet.

Operation

Power switch

The mains power switch is on the back panel of the amplifier. This can be set to the 'I' (ON) position for normal operation, leaving the amplifier to switch in and out of standby automatically in use.

When leaving the system unattended for longer periods such as holidays, set the power switch to the 'O' (OFF) position or disconnect mains power.

User controls

The amplifier is fully automatic in operation - there are no controls that require user operation in daily use.

Standby mode

If a DC trigger cable has been connected, the A100Q will switch out of standby in response to the DC signal.

If there is no DC trigger connection, the amplifier will switch on automatically when it senses a music signal on one of the inputs. It will switch back to standby if no music has played for 20 minutes.

Note: When switching on from standby using music sensing there may be a short delay before the amplifier plays. This is normal.

When the amplifier is set to standby, the standby indicator will light red. When the amplifier is operational, the standby indicator will light blue.

Clip indicator

The clip indicator on the front panel will light red when any of the 4 internal amplifiers overload.

Sustained operation with the clipping indicator lit may cause the amplifier to overheat and cut out until it cools down.

Protection

The A100Q includes several different levels of protection:

Output protection

The amplifier is protected against short-circuits at the speaker terminals.

Short-circuit protection will cause one or more of the audio channels to mute until the short-circuit is cleared.

Thermal protection

The amplifier is also protected against overheating due to inadequate ventilation or over-driving.

In this case the amplifier will set to standby. It will switch back on when it has cooled down.

Should this occur, check that there is adequate clearance around the amplifier for air can circulate and that the amplifier is not positioned above other, hot system components.

When rack-mounted, consider fitting cooling fans to the rack.

Internal fault

In the unlikely case of an internal fault occurring, the amplifier is designed to set permanently to standby.

Should this condition arise and there is no evidence of other problems such as overheating, disconnect the amplifier from the mains supply for 10 seconds, then reconnect it. If the amplifier remains in standby, disconnect it from the mains supply and contact Amina Technical Support.

Testing a new installation

Basic audio tests can take place before the A100Q has been configured.

- Switch on the audio system.
- Switch on the A100Q.
- Increase the source volume slowly and check that all speaker channels are working correctly.

If the speaker channels are working correctly, continue with configuring the amplifier.

If you find any problems with any of the speaker channels, resolve these before configuring the amplifier.

Configuration

The A100Q is supplied pre-installed with a 'safe' response (restricted frequency response and limited output power)

It must therefore be configured by an Amina agent for each new installation or to reconfigure settings for an existing installation.

- Refer to the separate A100Q Programming and Configuration Manual for full configuration instructions.

NOTE: The equipment and configuration manual required to program the A100Q are supplied to approved installers only. Any attempt to connect other equipment to the A100Q port marked 'PC' may damage the connected equipment and will invalidate the A100Q warranty.

Troubleshooting

Symptom	Solution
No power (standby indicator is not lit).	• Check the connection to mains power. • Check the mains fuse condition and value.
No audio from any channel.	• Switch off, check the input and speaker connections. • Check that the source is playing and volume is turned up. • Check the speaker connections for a possible short-circuit.
No audio from one channel.	• Switch off and carefully check all connections for that channel from the source to the amplifier and from the amplifier to the speaker. Check the speaker connections.
Amplifier cuts out in use.	• The amplifier may be overheating. Check that there is adequate ventilation around the case and that the amplifier is not being overdriven. • If the A100Q is rack mounted and performing for extended periods at high powers, try leaving a single rack space between it and adjacent units or install forced cooling using a fan to reduce the ambient temperature. • Check that the speaker load impedance is greater than 4Ω.
Amplifier permanently set to standby.	• There may be an internal fault. Contact your installer or Amina Technical Support for advice.

If you cannot resolve the problem, contact your supplier.

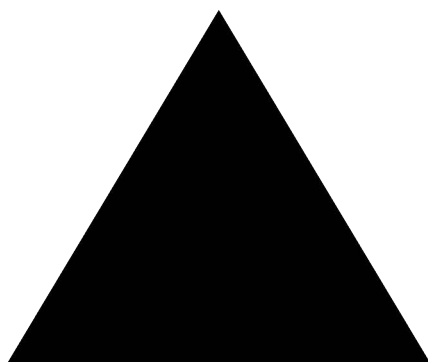
Specifications

Dimensions:	483mm (W) x 44.5mm (H) x 237mm (D)
Weight:	3.63kg (8.0lbs)
Power supply:	220-240VAC~50Hz, 110-120VAC~60Hz 500W
Operating temperature range	0° - 35°C (32° - 95°F)
Operating humidity range	RH 15% - 70%
Power output (4Ω):	4 x 100W rms @1kHz
Power output (6Ω):	4 x 67W rms @1kHz
Power output (8Ω):	4 x 50W rms @1kHz
THD at 1W (4Ω):	0.05%@1W
THD at rated power (4Ω):	0.3%@100W
Channel separation:	67dB
12V trigger	5V~15V at <1mA
Input sensitivity:	780mV
Input impedance	37kΩ
Nominal gain	27dB
Over/under voltage protection	Yes
Over current protection	Yes
Over temperature protection	Yes



Warranty

The A100Q is designed to operate reliably for many years. Correctly installed and in accordance with these instructions, Amina warranties the A100Q against defective materials and workmanship for a period of one year.



AMINA

IMMERSIVE INVISIBLE SOUND

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