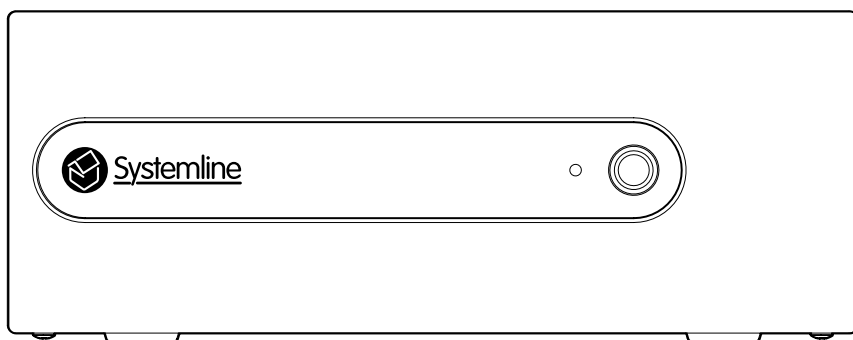


## Instruction manual



# NetPower Amplifier

## Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. 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 into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug 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.

## WARNINGS

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

This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Apparatus with CLASS1 construction shall be connected to a MAINS socket outlet with a protective earthing connection.

## Instructions de sécurité importantes

1. Veuillez lire ces instructions.
2. Veuillez conserver ces instructions.
3. Veuillez prendre connaissance de tous les avertissements.
4. Veuillez suivre toutes les instructions.
5. N'utilisez pas cet appareil à proximité de l'eau.
6. Nettoyez uniquement avec un chiffon sec.
7. N'obstruez pas les grilles de ventilation. Suivez attentivement les instructions du fabricant lors de l'installation.
8. N'installez pas cet appareil à proximité d'une source de chaleur telle que des radiateurs, des bouches d'air chaud, des fours, ou tout autre appareil (y compris des amplificateurs) produisant de la chaleur.
9. Ne supprimez pas la sécurité apportée par la prise polarisée ou de type B. Une prise polarisée possède deux broches, dont une plus large que l'autre. Une prise de type B possède deux broches et une fiche terre. La broche la plus large ou la fiche terre sont là pour votre sécurité. Si la prise fournie ne convient pas, adressez-vous à un électricien pour une mise aux normes de votre installation électrique.
10. Évitez de marcher sur le cordon d'alimentation ou de le pincer, en particulier, à l'extrémité du cordon, de la prise et à la sortie de l'appareil.
11. Utilisez uniquement des accessoires spécifiques par le fabricant.
12. Utilisez uniquement les chariots, pieds, tripodes, supports ou les tables recommandés par le fabricant ou vendus avec l'appareil. Si vous utilisez un chariot, faites très attention lors du transport de l'appareil et évitez de le faire tomber pour ne pas vous blesser.
13. Débranchez cet appareil en cas d'orage ou lorsque vous ne vous en servez pas pendant une période prolongée.
14. Pour toute réparation, adressez-vous à un professionnel. Faites réparer cet appareil pour des dommages de n'importe quelle nature : cordon d'alimentation abîmé, liquide ou objet introduit dans l'appareil, exposition à la pluie ou à l'humidité, fonctionnement inhabituel, chutes diverses.

### AVERTISSEMENT

Afin de diminuer les risques d'incendie ou de choc électrique, conservez cet appareil à l'abri de la pluie et de l'humidité.

Évitez toute éclaboussure et ne posez pas d'objets contenant des liquides, comme des vases, sur cet appareil.

L'appareil de construction de CLASS1 doit être connecté à une prise secteur dotée d'une protection par mise à la terre.

**Contents**

|                                              |           |
|----------------------------------------------|-----------|
| <b>1.0 NetPower pack contents</b>            | <b>5</b>  |
| <b>2.0 Introduction</b>                      | <b>5</b>  |
| <b>3.0 Installing And Operating NetPower</b> | <b>6</b>  |
| 3.1 Wall Mounting                            | 7         |
| 3.2 Rear Panel                               | 8         |
| 3.3 Front Panel                              | 10        |
| <b>4.0 Specifications</b>                    | <b>11</b> |
| Power                                        | 11        |
| Audio                                        | 11        |
| DC Trigger                                   | 11        |
| Auto switch on                               | 11        |
| General                                      | 11        |

## **1.0 NetPower pack contents**

- 1.1 NetPower x 1
- 1.2 Bridged mode link x 1
- 1.3 Mounting brackets x 2
- 1.4 Mains cable x 1
- 1.5 Operating manual x 1

## **2.0 Introduction**

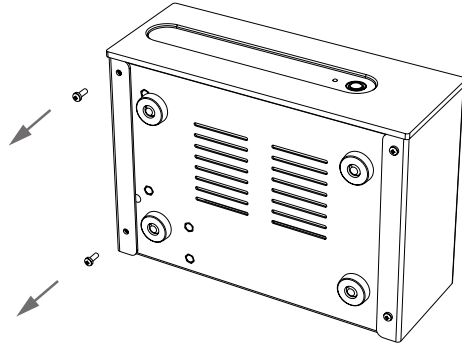
The NetPower is a stereo audio power amplifier for use in installed audio systems. It has line level inputs, directly connected line outputs, and can drive one or two pairs of loudspeakers with a combined impedance down to 4Ω.

On the rear panel there is a screwdriver-adjustable gain control. There is also a mode switch which allows the user to select the method of standby switching – using an opto-isolated DC trigger input, or audio signal sensing. There is also a conventional standby switch on the front panel.

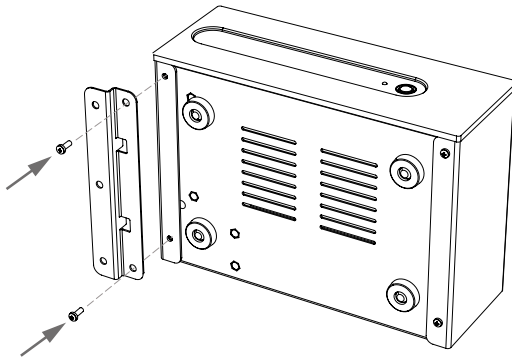
## 3.0 Installing And Operating NetPower

### 3.1 Wall Mounting

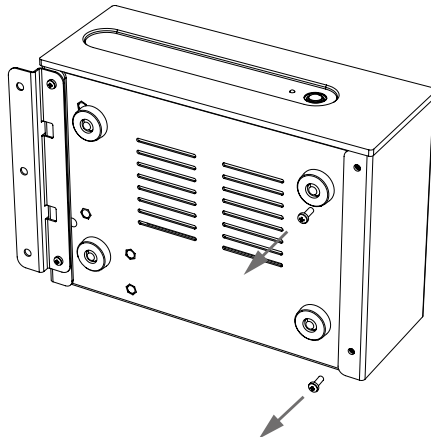
1. Remove two screws from the underside of the NetPower. Both screws must be from the same side of the unit.



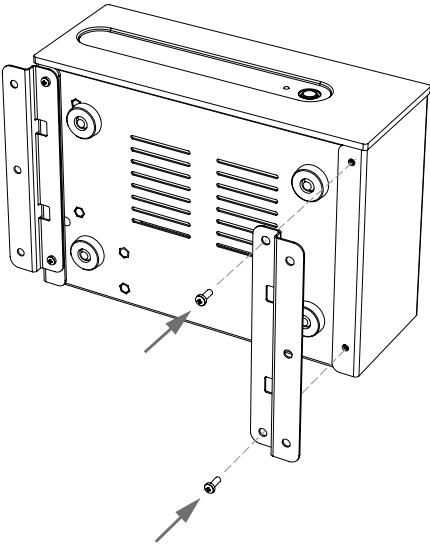
2. Align the bracket as shown and secure to the unit using the two screws removed previously.



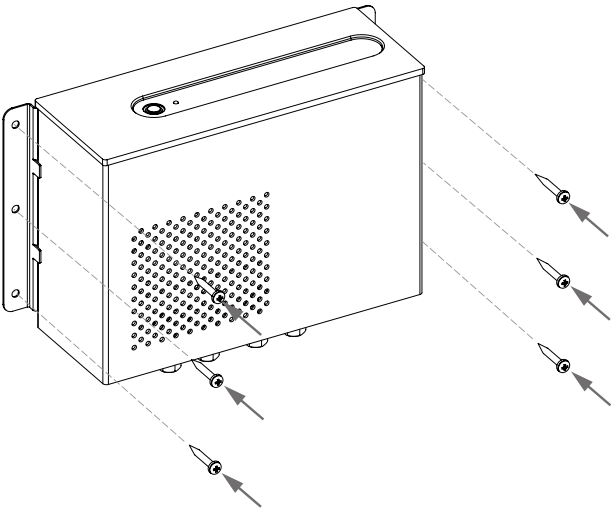
3. Remove the two screws from the other side of the NetPower.



4. Align the second bracket as shown and secure using the two screws removed previously.

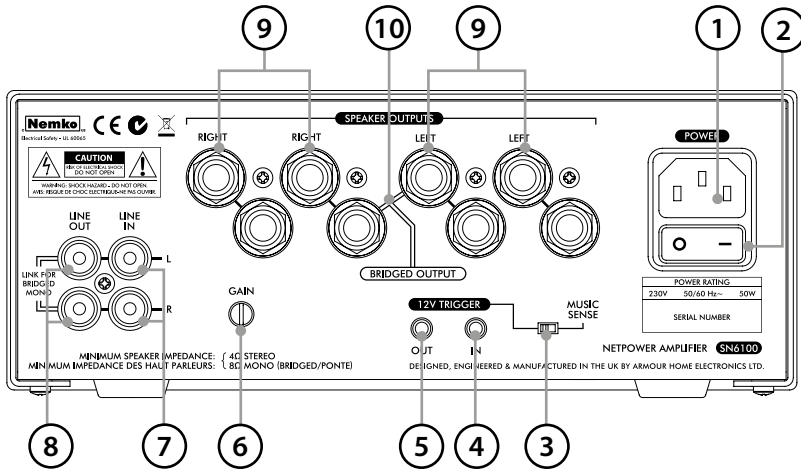


5. Mount NetPower onto a wall using suitable fixings\* for your installation.



\*Wall fixings not supplied

## 3.2 Rear Panel



### 1. Power Inlet

Before making any connection, check that the mains voltage setting printed on the rear panel is the same as your local mains supply. Plug the female (socket) end of the power cord into the power inlet on the rear of the amplifier. Plug the male (plug) end of the cord into a “live” wall socket or a suitable extension cable.

### 2. Power Switch

Do not switch the power ON until all rear panel connections have been made and the operating mode selected (see below). When the power switch is in the OFF position all power is disconnected from the amplifier. When the power switch is in the ON position, the amplifier will power up in standby mode.

### 3. Mode Switch

The mode switch sets up the means by which the NetPower may be switched into or out of standby.

#### *Music Sense Mode*

When MUSIC SENSE mode is selected the NetPower will switch automatically out of standby when an audio signal is present at the Line Input. If there is no audio signal for a continuous period of 20 minutes, the NetPower will automatically switch back into standby.

Alternatively the NetPower may be switched into or out of standby manually using the front panel Standby button.

### 12V Trigger Mode

When 12V TRIGGER mode is selected the NetPower may be switched into or out of standby using a suitable DC source connected to the 12V trigger input.

|                                      | Unit in Standby              | Unit Operational           |
|--------------------------------------|------------------------------|----------------------------|
| DC voltage applied to DC TRIG jack   | Unit switches out of standby | No change                  |
| DC voltage removed from DC TRIG jack | No change                    | Unit switches into standby |

Alternatively the NetPower may be switched into or out of standby manually using the front panel Standby button.

### 4. 12V trigger Input

Connect the 12V Trigger Input to a DC trigger source (minimum 5V) using a 3.5mm mono jack cable. Connect "+" to the jack tip, and "-" to the sleeve.

### 5. 12V Trigger Output

The 12V Trigger Output is connected directly to the Input so that multiple amplifiers can be controlled from a single source.

### 6. Gain

This control adjusts the gain the NetPower. When set to maximum (fully clockwise) the voltage gain is 29dB (740mV for full power of 55W into 8 ohms). The control range is 20dB.

### 7. Line Input

Connect audio input cables to these RCA (phono) sockets.

### 8. Line Output

The Line Out RCA (phono) sockets are connected directly to their respective Line In sockets. This allows for multiple power amplifiers to be driven from a single source. Please take note of the increased loading this will present to the source signal.

### 9. Loudspeaker Outputs

There are two pairs of speaker terminals for each channel allowing two pairs of speakers to be connected with ease. Ensure that in each case the red terminal is connected to the red or "+" terminal on the loudspeaker and the black terminal to the black or "-" terminal.

**Note: Never make any direct connection between any LEFT terminal and any RIGHT terminal.**

The NetPower amplifier can drive impedances down to 4Ω i.e. one pair of 4Ω loudspeakers or two pairs of 8Ω loudspeakers. **Note: This rule does not apply in bridge mode.**

### 10. Bridged (Mono) Mode

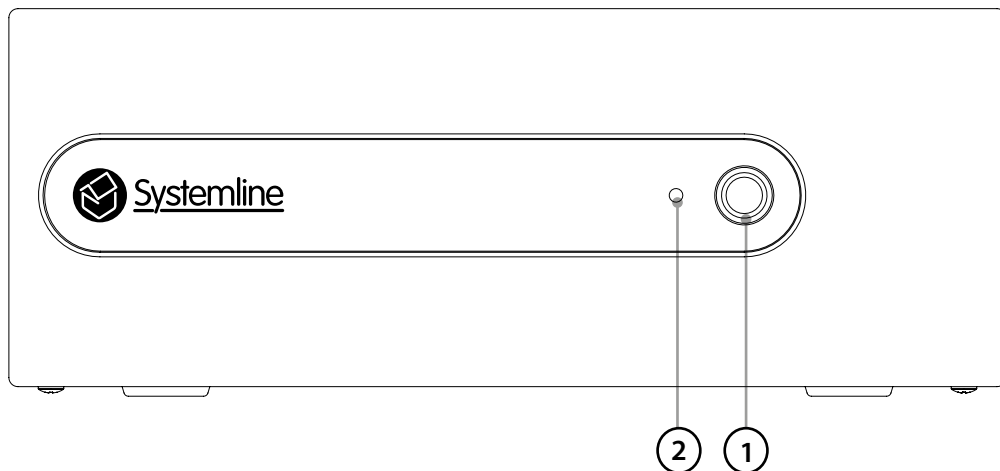
To operate in Bridged (Mono) Mode, insert the Bridged Mode link into the Line Out sockets, so that it links left and right channels. Note: as the line outputs are directly connected to the line inputs, this means that the left and right line inputs are also now connected together.

A single loudspeaker should now be connected between the LEFT "+" and RIGHT "-" terminals, as indicated by the diagonal line.

**Note: When in bridge mode, then netpower amplifier can only drive a single 8Ω loudspeaker.**

A mono signal source should be connected to either the left or right Line In socket. Alternatively a stereo source may be used if it is designed so that its left and right outputs may safely be shorted together ("mono-ed"). The Systemline NetAmp's line output is designed so that it may be connected in this way.

### 3.3 Front Panel



#### 1. Standby button

When the amplifier is plugged into a live wall socket and the power switch on the rear is turned ON, it will power up in standby mode and the LED by the Standby button will glow red. In this condition the internal circuitry is powered up but disabled, so it consumes very little power (<0.5W).

#### 2. StandbyLED

When the NetPower is switched out of standby, by whatever means (see page 3), the Standby LED will flash blue for a brief period while the amplifier settles, followed by continuous blue. The NetPower is now ready for use.

## 4.0 Specifications

| Power               |                         |             |
|---------------------|-------------------------|-------------|
| Continuous output   | 4 $\Omega$              | 100 W       |
|                     | 8 $\Omega$              | 55 W        |
|                     | 8 $\Omega$ bridged      | 200 W       |
| Standby consumption |                         | <0.5W       |
| Mains voltage       | Set by an internal link | 115 or 230V |

| Audio                |                                           |                      |
|----------------------|-------------------------------------------|----------------------|
| THD                  | At 80% rated power, 8 $\Omega$ 20Hz-20kHz | <0.07%               |
| Signal / Noise ratio | A weighted ref 55W/8 $\Omega$             | >113dB               |
| Input sensitivity    | At max gain, ref 55W into 8 $\Omega$      | 740mV                |
| Gain control range   |                                           | 9dB - 29dB           |
| Input Impedance      |                                           | 18K $\Omega$ //220pF |
| Frequency response   | 20Hz-20kHz                                | (+/-) 0.5dB          |
|                      | 60kHz                                     | (-)3dB               |

| DC Trigger        |  |               |
|-------------------|--|---------------|
| Input sensitivity |  | <5V           |
| Input resistance  |  | 10 k $\Omega$ |

| Auto switch on |                  |     |
|----------------|------------------|-----|
| Sensitivity    | Mono source, L=R | 3mV |

| General    |                                             |  |
|------------|---------------------------------------------|--|
| Dimensions | Height: 86.5mm, Width: 219mm, Depth:170.5mm |  |
| Net Weight | 2.12kg                                      |  |



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