

Signature Series

Maximum Resilience Broadcast Audio



PS1

POWER STATION

Back-up Power Supply for Signature Series Audio Racks

User Guide

GlenSound

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GlenSound Electronics Ltd

Thank you for choosing a new GlenSound product.

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Information contained in this manual is subject to change without notice, if in doubt please contact us for the latest product information.

If you need any help with the product then we can be contacted at:

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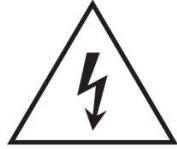
General enquires: office@glenSound.co.uk

Technical enquires: techinfo@glenSound.co.uk

Sales enquires: sales@glenSound.co.uk



IMPORTANT SAFETY INSTRUCTIONS



This symbol is intended to warn that dangerous voltages within the product are present and constitute a risk of electric shock.



This symbol is intended to highlight that there are important operating & maintenance instructions in the literature accompanying this unit.

- 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 a dry cloth
- 7) Do not block any ventilation openings. Install in accordance with 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 polarized or grounding type plug. A polarized plug has 2 blades with one wider than the other. A grounding type plug has 2 blades and third grounding prong. The wider blade or the 3rd 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/ supplied 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
- 15) Do not attempt to modify this product. Doing so could result in personal injury and/ or product failure



CAUTION

**RISK OF ELECTRICAL SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK) .
NO USER-SERVICABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED PERSONNEL.

WARNING:

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



IMPORTANT: MAINS PLUG WIRING INSTRUCTIONS

This Signature unit is supplied with a moulded mains plug fitted to the AC mains lead.

Mains wiring colours/ connections:

The Green/ Yellow or Green wire must be connected to the terminal in the plug marked 'E' or with the Earth Symbol.

The Blue or Black wire must be connected to the terminal in the plug marked 'N' (Neutral).

The Red or Brown wire must be connected to the terminal in the plug marked 'L' (Live).



THIS UNIT MUST BE EARTHED



THIS UNIT IS FITTED WITH AN INTERNAL MAINS FUSE.

The fuse is located internally between the Live terminal of the IEC plug and the Live input of the power supply. The fuse should only be changed by a qualified service engineer. If replacing the fuse care should be taken to fit a correctly rated replacement. The fuse rating can be found in the technical specifications page of this handbook.



EU DECLARATION OF CONFORMITY FOR:

SIGNATURE PS1

Power Station for Signature Series

This declaration of conformity is issued under the sole responsibility of the manufacturer.

This equipment is manufactured by Glensound Electronics Ltd of Brooks Place Maidstone Kent ME14 1HE is **CE** marked and conforms to the following Union harmonisation legislation:

Low Voltage Directive:	EN60065 and EN62368-1:2014
Emissions:	BS EN55032:2015
Immunity:	BS EN55035:2017

Signed for and on behalf of Glensound Electronics Ltd.

Gavin Davis, Managing Director
Maidstone, Kent, England

Date: March 2018

RoHS DIRECTIVE

RoHS 2 Directive 2011/65/EU restricts the use of the hazardous substances listed below in electrical and electronic equipment.

This product conforms to the above directive and for this purposes, the maximum concentration values of the restricted substances by weight in homogenous materials are:

Lead	0.1%
Mercury	0.1%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls	0.1%
Polybrominated Diphenyl Ethers	0.1%
Cadmium	0.01%

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT REGULATIONS 2006 (WEEE)

GlenSound Electronics Ltd is registered for business to business sales of WEEE in the UK our registration number is:

WEE/JJ0074UR

PRODUCT WARRANTY:

All equipment is fully tested before dispatch and carefully designed to provide you with trouble free use for many years.

We have a policy of supporting products for as long as possible and guarantee to be able to support your product for a minimum of 10 years.

For a period of one year after the goods have been despatched the Company will guarantee the goods against any defect developing after proper use providing such defects arise solely from faulty materials or workmanship and that the Customer shall return the goods to the Company's works or their local dealer.

All non-wear parts are guaranteed for 2 years after despatch and any defect developing after proper use from faulty materials or workmanship will be repaired under this warranty providing the Customer returns the goods to the Company's works or their local dealer.



PS1 Power Station **Handbook Contents**

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Description

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OVERVIEW

The Signature PS1 Power Station provides a fully resilient back up power supply to your Signature Series units. It contains two switch mode power supplies, each capable of powering up to three separate Signature Series units. A pair of bright front panel LEDs indicate that each power supply is on and active. The master AC power input accepts 100 – 240 VAC for Worldwide compatibility.

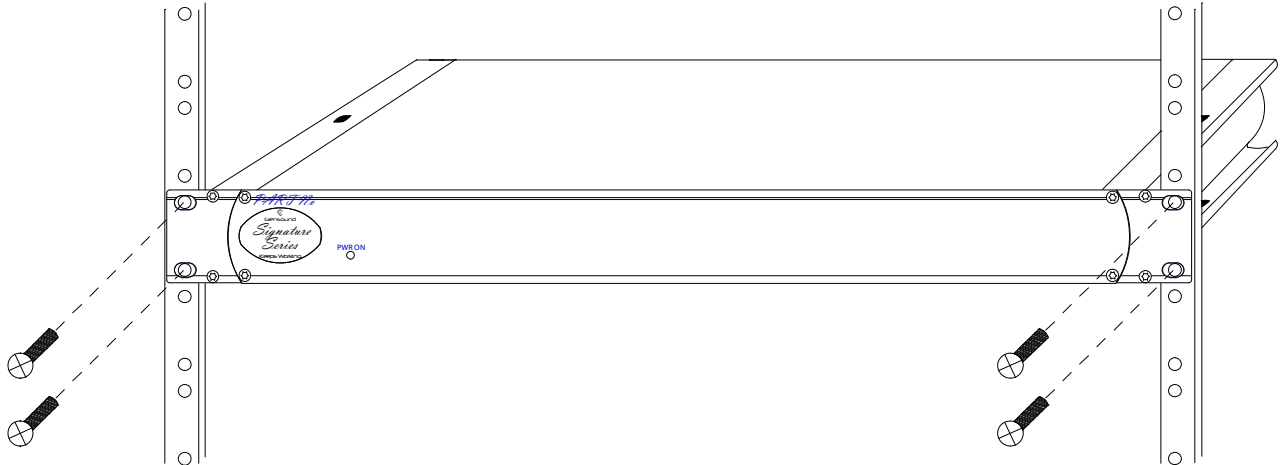
As well as providing a backup DC supply for up to six Signature Series units, the PS1 can also act as a master DC power distribution to six Signature units.

All outputs are individually fused so a short circuit on one will not affect any others.

PHYSICAL INSTALLATION

The GlenSound Signature Series have been designed to be highly versatile for installation and can be installed in 19" racks with either their front or rear panels facing the front of the rack. They can also be mounted underneath desks or work tops and can be either permanently mounted or stood (using the supplied feet) on top of desks or worktops.

INSTALLING SIGNATURE SERIES IN A 19" RACK



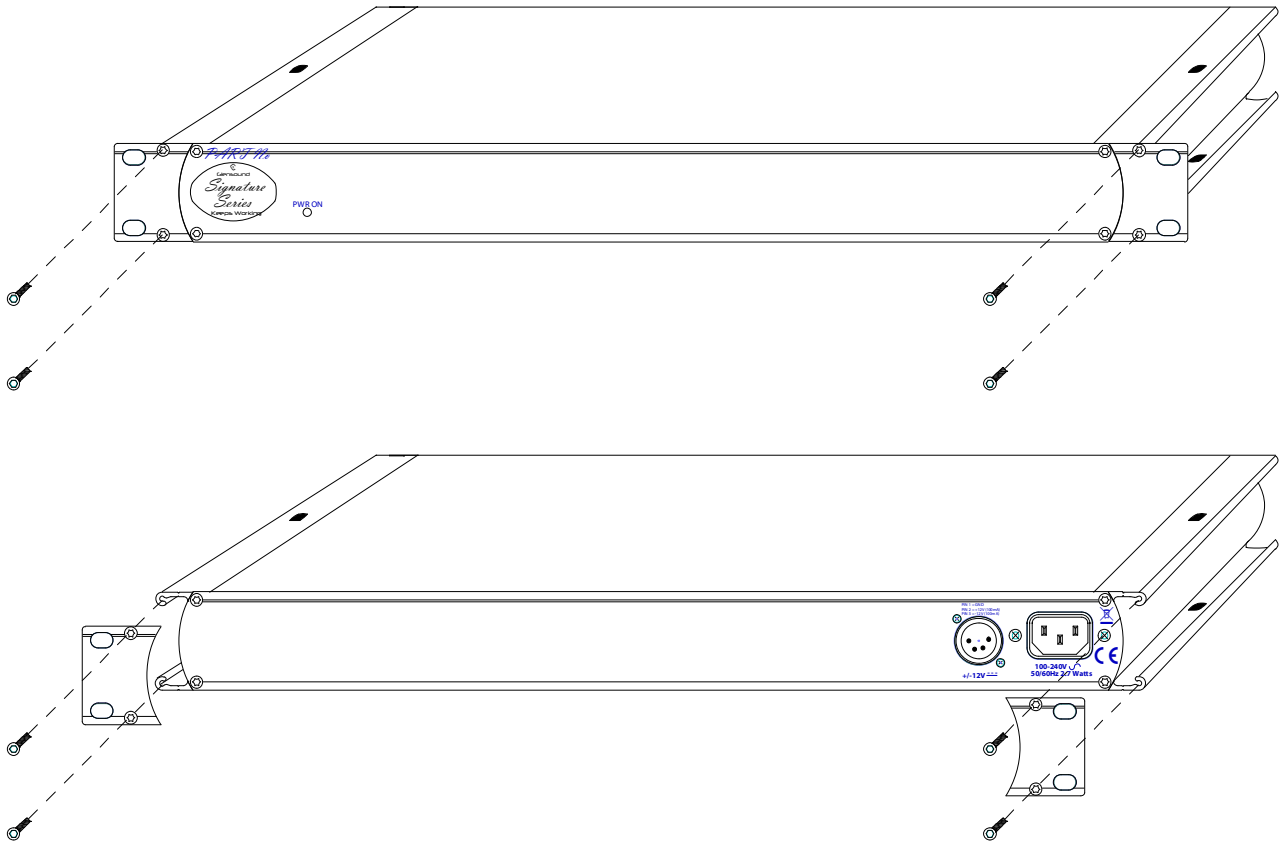
Firmly hold the signature subrack within the 19" rack and locate in 1RU of space. Use the supplied 6mm rack screws to securely attach the unit to the rack.

INSTALLING ADHESIVE FEET FOR NON PERMANENT TABLE TOP MOUNTING



Remove the front rack ears (if they are not required), turn the unit upside down and attach the supplied 4 sticky feet as per the above drawing.

SWAPPING RACK EARS TO ALLOW THE REAR TO BE INSTALLED AT THE FRONT OF A RACK

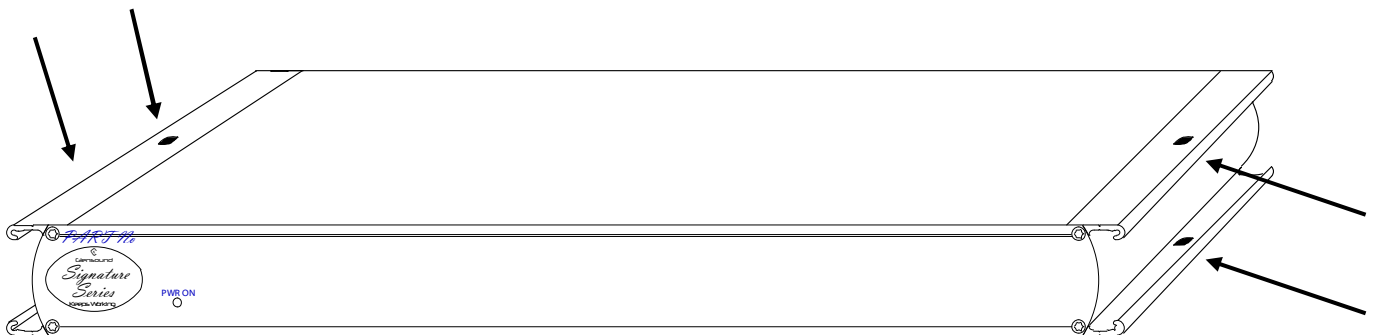


First remove the 4 silver button head screws that fix the rack ears onto the front of the unit as shown in the top picture above.

Remove the rack ears and turn the unit around for access to its back panel.

Re-fit the 2 rack ears using the same 4 silver button head screws that were removed from the front as per the bottom picture above.

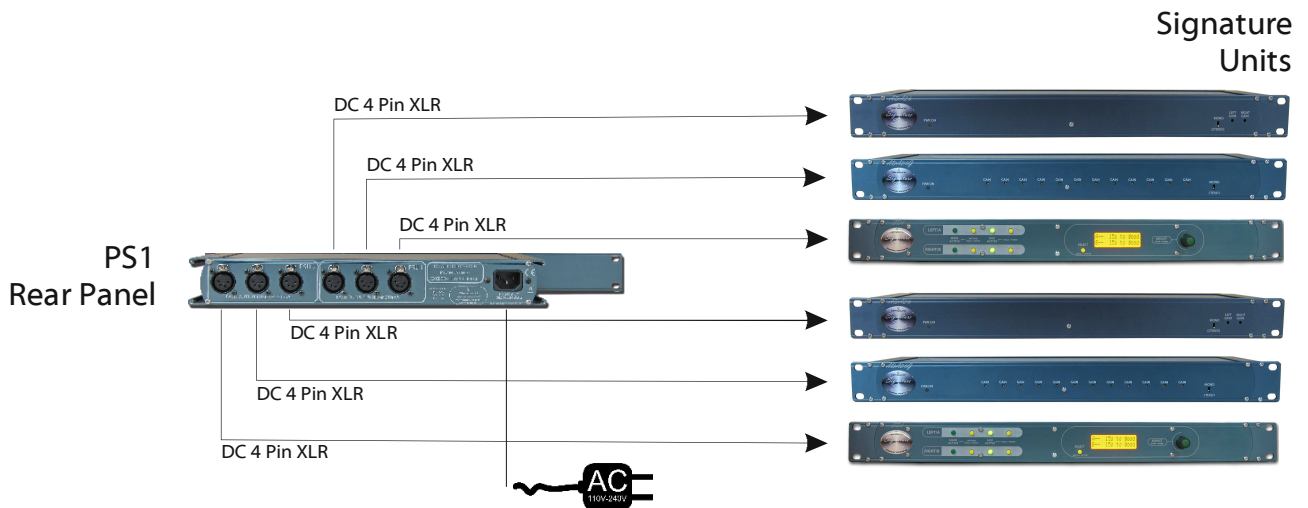
USING THE MOUNTING HOLES FOR PERMANENTLY ATTACHING THE UNIT ABOVE OR BELOW A WORKTOP/ DESK



Use either the top or bottom mounting holes as indicated above to use suitable screws to attach the signature unit to a worktop or bench. ****PLEASE ENSURE THAT YOU USE SUITABLE FIXINGS****

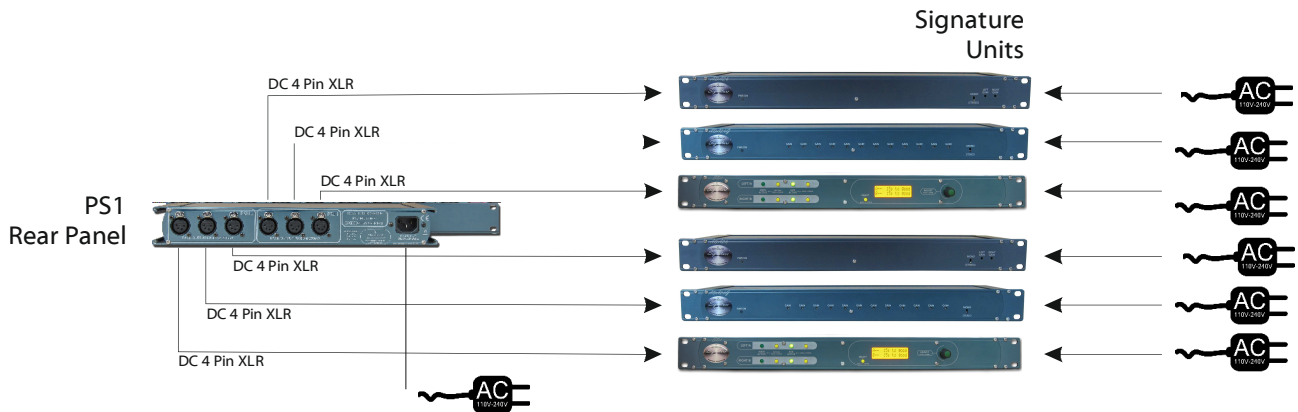
EXAMPLES OF USE

1. Master DC Power Supply



The Signature PS1 Power Station can be used as the primary power source for Signature Series units. There are 6 x $\pm 12\text{VDC}$ outputs. Each of these can be connected to any single Signature Series unit, providing it with the primary power source. The PS1 must be connected to a 100-240VAC mains power supply in order to distribute DC power to the other Signature units.

2. Redundant DC Power Supply



The Signature PS1 Power Station can be used as a redundant power supply for Signature Series units. This is very useful when the Signature units are being used for an important function, and the peace of mind of a backup supply is desirable.

Each Signature unit connects to a 100V - 240V AC supply as normal. The PS1 has 6 x $\pm 12\text{VDC}$ outputs. Each of these connects to any single Signature Series unit, providing it with the redundant power source. In the event of a failure of the AC power supply on the Signature units, the PS1 will simply take over and ensure that the unit remains operational.

USER CONTROLS & CONNECTIONS

FRONT PANEL

1. PSU ON LEDS

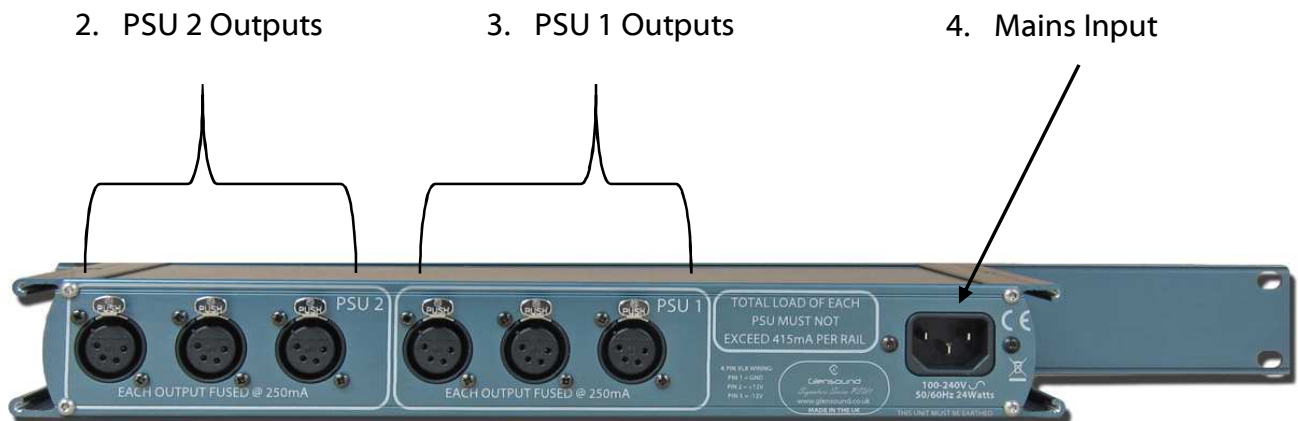


1. **PSU ON LEDS**

The two front panel PSU LEDs are each connected to the output of one of the two internal power supplies.

If these LEDs are on then the unit is functioning correctly.

REAR PANEL



2. PSU 2 Outputs

These three DC power outputs are fed from one of the two internal power supplies. Each one can be connected to an associated input on a Signature Series unit to provide DC power to that unit.

Each output is individually fused so a short on one output or other external problem on that output will not affect any other devices connected to the PS1.

3. PSU 1 Outputs

These three DC power outputs are fed from one of the two internal power supplies. Each one can be connected to an associated input on a Signature Series unit to provide DC power to that unit.

Each output is individually fused so a short on one output or other external problem on that output will not affect any other devices connected to the PS1.

4. Mains Input

This wide range IEC plug accepts mains inputs in the range of 100 – 240VAC (+/- 10%).

MAXIMUM CURRENT OUTPUT



IMPORTANT: MAXIMUM OUTPUT CURRENT

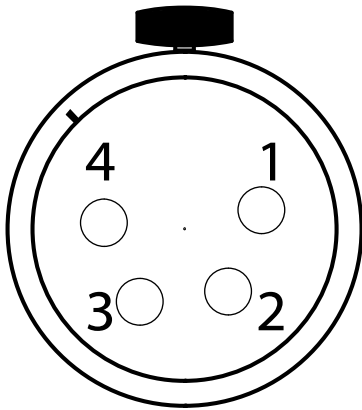
Each Glensound Signature rack has printed on its rear panel near the 4 pin XLR DC input connector the maximum current consumption of that rack for both its positive and negative DC input rails.

Each of the 2 internal Power Supplies (PSU 1 and 2) within the PS1 power station have a maximum output current of 415mA per rail.

It is therefore necessary to make sure that the total current requirements of any devices attached to the PS1 when added up do not exceed 415mA per rail per PSU output.



WIRING INFORMATION



DC OUTPUTS:

PIN 1: GND

PIN 2: +12V

PIN 3: -12V

4 PIN XLR SOCKET (FEMALE)

Signature Series

Maximum Resilience Broadcast Audio



SPECIFICATIONS

POWER

Mains Input

Filtered IEC, 100 to 240VAC
47 - 63Hz

AC Consumption

10 Watts @ 230VAC

DC Output

6 off 4 Pin Neutrik XLR plug $\pm 12V$

DC Output Fuse

Internal polyfuse 250mA per rail per output

Internal Mains Fuse

20mm 1A Anti Surge

ACCESSORIES

DC Output Cable

6 x 2 metre long cables, 4 pin XLR plug
to 4 pin XLR socket included

PHYSICAL

Size

336 x 123 x 44mm (LxDxH) no rack ears
482mm (19") 1RU with rack ears

Weight

0.85kg

Mechanics

All aluminium construction, anodized and
laser etched

Shipping Carton

Rugged export quality cardboard carton
610 x 420 x 130mm (LxDxH)

Shipping Weight

3kg

