

USER MANUAL

PSA300 DUAL POWER AMPLIFIER



Caution: Please carefully read this manual before operating

Damage caused by misuse is not covered by warranty



SAFETY WARNINGS!

1. Read and keep these instructions.
2. Heed all warnings and follow all instructions.
3. Do not use this apparatus near water.
4. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
6. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized 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 is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8. Only use attachments/accessories specified by the manufacturer.
9. 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.
10. Unplug this apparatus during lightning storms or when unused for long periods of time.
11. 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.
12. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
13. Plug this apparatus to the proper wall outlet and make the plug to be disconnected readily operable.
14. Main plug is used as disconnected device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.

WARNING!

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THE PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
TO PREVENT ELECTRICAL SHOCK,
MATCH WIDE BLADE PLUG TO WIDE SLOT, FULLY INSERT.



The lightning flash with 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.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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



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 appliance.

Introduction

The PSA300 is a 2-channel class D professional stereo power amplifier. Capable of providing 300 Watts per channel at 4ohms, or a bridgeable output at 600 Watts makes the PSA300 a solid choice for a variety of audio applications. Please follow the instructions found in the manual to familiarize yourself with the features and operation of this amplifier. Should you have questions or need assistance during the installation or operation of the PSA300, please contact your place of purchase.

Safety Instructions

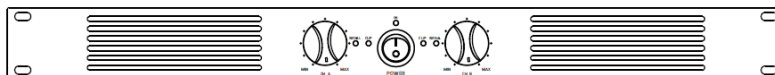
WARNING

- Do not expose the unit to rain or wet environment, as it may result in fire or electric shock.
- Use the unit only with the specified voltage on it. Using a voltage higher than the specified voltage may result in fire or electric shock.
- Never open nor remove the unit case as this may result in an electric shock. Refer all servicing to qualified personnel only.

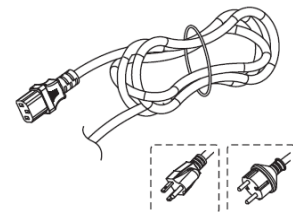
Precautions

- Do not place the unit in environments which contain high levels of dust, heat moisture or vibration.
- Do not place anything on top of the cabinet that may block the ventilation holes, as this may result in malfunctions.
- rack mounting the amplifier, ensure there is adequate support and that you firmly attach the front mounting brackets to the rack frame.
- Always provide adequate air-flow and ventilation. Never cover or block the cooling vents found at the rear of the amplifier.
- Disconnect the amplifier during lightning storms or when not used for long periods of time.

Packing List



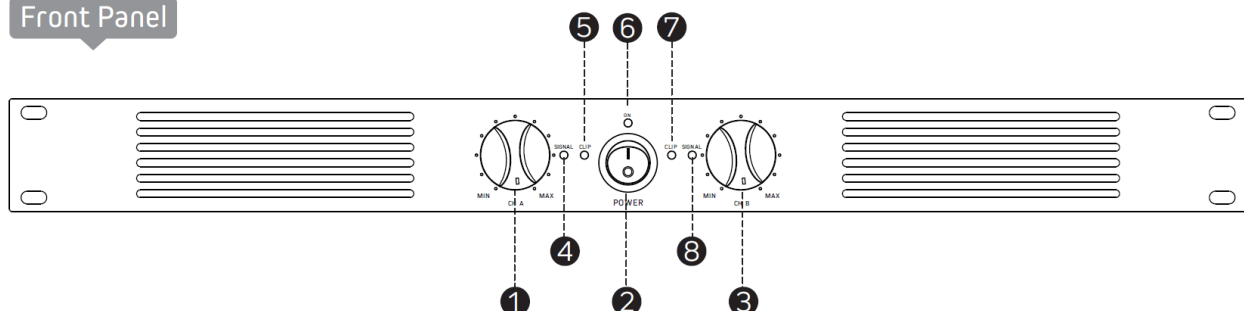
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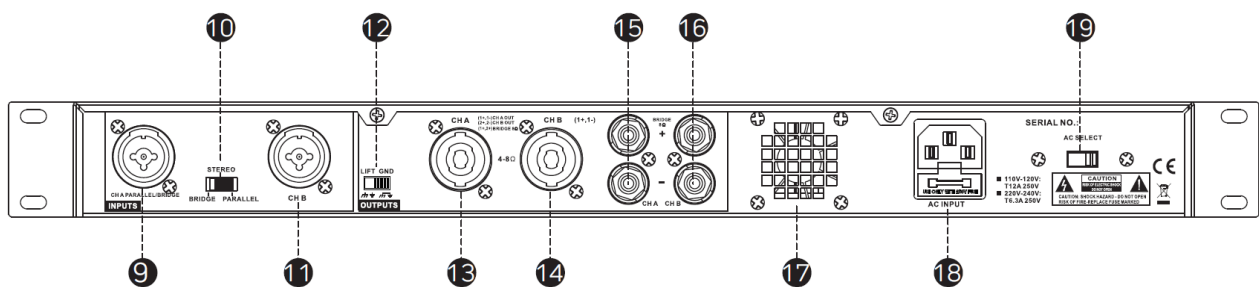
Panel Description

Front Panel



(1) Channel A Volume Control	(5) Channel A Clip Indicator
(2) Power On/Off Switch	(6) Power Indicator
(3) Channel B Volume Control	(7) Channel B Clip Indicator
(4) Channel A Signal Indicator	(8) Channel 4 B Signal Indicator

Rear Panel



(9) Channel A Input/Parallel/Bridge	(15) Channel A Binding Post Connector
(10) Mode Switch (Bridge/Stereo/Parallel)	(16) Channel B Binding Post Connector
(11) Channel B Input	(17) 12V Cooling Vent
(12) Ground Lift Switch (LIFT/GND)	(18) AC115/230V Mains Inlet & Fuse
(13) Channel A XLR Output	(19) Mains Voltage Selector (110-120V/220-240V)
(14) Channel B XLR Output	

Setup & Operation

LED Indicators

POWER: the BLUE LED is lit when the amplifier is ON

SIGNAL: the GREEN LED is lit when the amplifier senses an audio signal

CLIP: the RED LED will flash when clipping occur

Stereo Mode

Slide Mode Switch **(10)** to the STEREO setting. Connect Left and Right speakers to Channel A and Channel B Outputs (via the XLR **(13)** / **(14)** or use the binding post connectors **(15)** / **(16)**), connect line level Left and Right inputs to the Channel A and Channel B inputs **(9)** / **(11)** via 6.35 mm jack or XLR. Ensure that the combined load on each channel is no less than 4 Ohms.

Parallel Mode

Slide Mode Switch **(10)** to the PARALLEL setting. Connect Left and Right speakers to Channel A and Channel B Outputs (via the XLR **(13)** / **(14)** or use the binding post connectors **(13)** / **(14)**), connect line level to the Channel A input **(9)** via 6.35 mm jack or XLR. Ensure that the combined load on each channel is no lower than 4 Ohms.

Bridge Mode

Running the amplifier in Bridge mode is different than the other 2 modes. Bridge mode combines both output channels to a single mono output. This mode enables you to provide double the power to a single speaker compared to stereo or parallel modes.

The difference is that the speaker load must be no lower than 8ohms, whether using a single speaker or combined load.

Bridge mode can be useful especially when driving a large, high powered subwoofer.

Slide Mode Switch **(10)** to BRIDGE setting.

Connect the speaker to the output using the 2 red binding posts or (1+,2+) CHA XLR output.

Connect the +wire to CHA+ and the – wire to CHB+.

Connect line level to the Channel A input **(9)** via 6.35mm jack or XLR.

IMPORTANT:

To prevent damage to the amplifier, ensure that the combined load is no lower than 8ohms.

Note: Switch the Operating Mode when the amplifier is POWERED OFF (No Blue LED).

Thermal Cooling

The VIVALDI PSA300 has an internal thermal sensor that will activate a small cooling fan when the amplifier reach an operating temperature over 50°C (120°F) .

The fan will continue operating until the amplifier has reached normal operating temperature.

Volume Control

Stereo Mode: controlled by CH A and CH B Volume Control **(1)** / **(3)** independently.

Parallel Mode: controlled by CH A Volume Control **(1)**.

Bridge Mode: controlled by CH A Volume Control **(1)**.

Specifications

Output Power	2x150W into 8ohms, 2 x 300W into 4ohms
Bridge Output Power	600W into 8ohms
Total Harmonic Distortion	0.01% / 1W / Channel
Minimum Speaker Impedance	4ohms
Signal-to-Noise Ratio	95dB
Input Connections	6.35mm Combo Jack/XLR Balanced
Input Impedance	20KΩ (BAL/UNBAL)
Input Sensitivity	1VRMS@1KHz
Frequency Response	20Hz - 20kHz
Product Weight	2.6kg/5.7lbs
Product Dimensions (LxHxP)	482x44x180mm (19"x7.1"x1.7")

SERVICE

Ensure the problem is not related to operator error, or system devices that are external to this unit. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

WARRANTY

Warranty terms of global three years. While the term and warranty may vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.



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