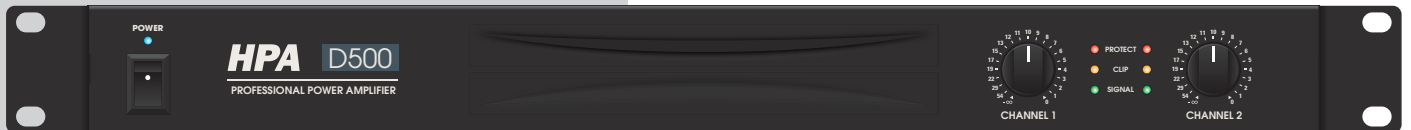




# Owner's Manual

## D300 D500



# **HPA**

# WARNING

1. Read these instructions - All the safety and operating instructions should be read before this product is operated.
2. Retain these instructions - The safety and operating instructions should be retained for future reference.
3. Heed all warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions - All operating and use instructions should be followed.
5. Do not use this apparatus near water - The appliance should not be used near water or moisture - for example, in a wet basement or near a swimming pool, and the like.
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 polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding 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.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at 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 or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified 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 has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Please keep the unit in a good ventilation environment.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall not be placed on apparatus.
17. **WARNING:** The mains plug or appliance inlet is used as disconnect device, the disconnect device shall remain readily operable.
18. **Power Sources** – This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.
19. **Safety Check** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
20. Don't touch conductive parts of output terminals to prevent hazardous electrical shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.
21. This equipment is for commercial & professional use only.
22. This product is in compliance with EU WEEE regulations. Disposal of end of life product should not be treated as municipal waste. Please refer to your local regulations for instructions on proper disposal of this product. 
23. To prevent hazardous electrical shock, do not touch the conductive parts of the output terminals. The external wiring connected to the terminals requires installation by an qualified technician or the use of ready made leads or cords.
24. Please locate the apparatus at places nearby power socket for quick power disconnection in emergency.



Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.



This lightning flash is intended to alert the user to the presence of non-insulated "dangerous voltage" on the output terminals that may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the 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.



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

**CAUTION:** To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

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## Introduction



### D300 / D500

#### CLASS-D POWER AMPLIFIER

#### Welcome

Congratulation and thank you for the purchasing D series power amplifiers.

The D Series amplifiers define the standard for portable PA systems with unmatched performance, technology, affordability and enormously light weight.

These amplifiers are designed to provide a big impact in sound reproduction and to produce the best and highest quality audio at an affordable price.

We wish you great enjoyment and satisfaction when using your amplifier, whether you are an installation, or reinforcement engineer.

#### Unpacking and Installation

Although it is neither complicated to install nor difficult to operate your amplifier, a few minutes of your time is required to read this manual for a properly wired installation and becoming familiar with its features and how to use them. Please take a great care may be needed when moving your set and are required if it ever becomes necessary to return your set for service. Never place the unit near radiator, in front of heating vents, to direct sun light, in excessive humid or dusty location to avoid damages and to guaranty a long reliable use.

Connect your unit with the system components according to the description on the following pages.

## Features

- Compact size, High performance and lightweight with Class-D Technology.
- Integrated Peck limiters provide maximum output while protecting your speakers.
- Various (XLR, 1/4" Phone, RCA) inputs ensure compatibility with any source.
- 5-Way Binding Post, 4-Pole Speakon outputs ensure compatibility with any speaker connection.
- Mode selection with Stereo, Parallel and Bridged MONO.
- Advanced protection includes abnormal voltage, over current and High temperature.
- Desktop and 19-inches rack mountable type.
- Low distortion and low noise level.
- Ideal commercial and industrial use.

## Front Panel Controls



### 1. Power Button

Turns amplifier power on and off. Blue LED will illuminate when power is turned on.

### 2. Gain(Level) Controls

Two black rotary level controls, One for each channel.

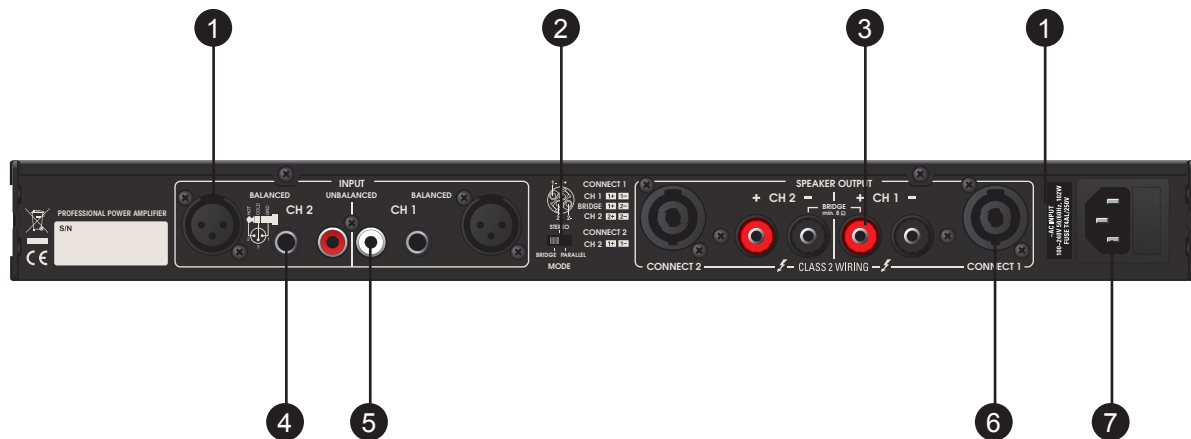
### 3. Indicators :

Signal Presence Indicator : Two green LED's, illuminate when the channel input signal exceeds -20dBu

Clip Indicator : Two yellow LEDs, illuminate when the channel's output is being overdriven

Protect Indicator : Two red LEDs, illuminate when thermal compression begins or/and any fault detected

## Rear Panel Controls



### 1. Balanced XLR Inputs

Two 3-pin XLR input connectors are provided.

### 2. MODE Selection

Three mode are provided. Stereo, Parallel and Bridged mono.

### 3. 5-Way Binding Post Jacks

One pair per channel, accepts banana plugs or bare wire.

**Note** : Binding post outputs on European models come with safety plugs installed to prevent European power plugs from being inserted The side entry positions for these connectors should be use with European models .

### 4. 1/4 Inch Inputs

Two 1/4 inch input connectors are provided.

### 5. RCA(Phono) Inputs

Two RCA inputs are provided.(One per channel).

### 6. 4-Pole Speakon Output Connectors

These two connectors accept 2-pole or 4-pole Speakon connectors. The channel

connector is wired for both channels so it can be used for bridge-mono wiring or stereo wiring of two speakers to a single Speakon

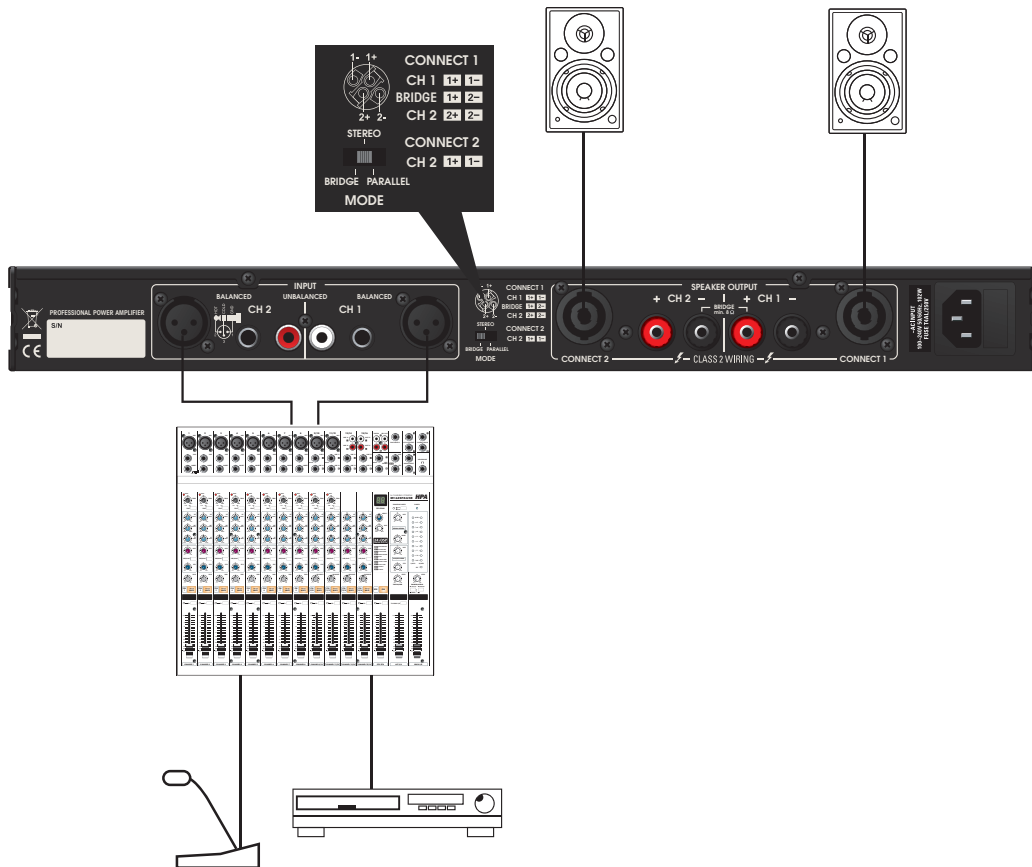
### 7. AC Power Connector

# Get Started

## Stereo Bypass Mode

This is the default mode the amplifier is set to from the factory.

1. Connect Left/Right signal source to Channel 1 and Channel 2 using either the XLR, 1/4 Inch or RAC connectors.
2. Connect a speaker to each channel output using Speakon, Banana Plugs or bare wire.

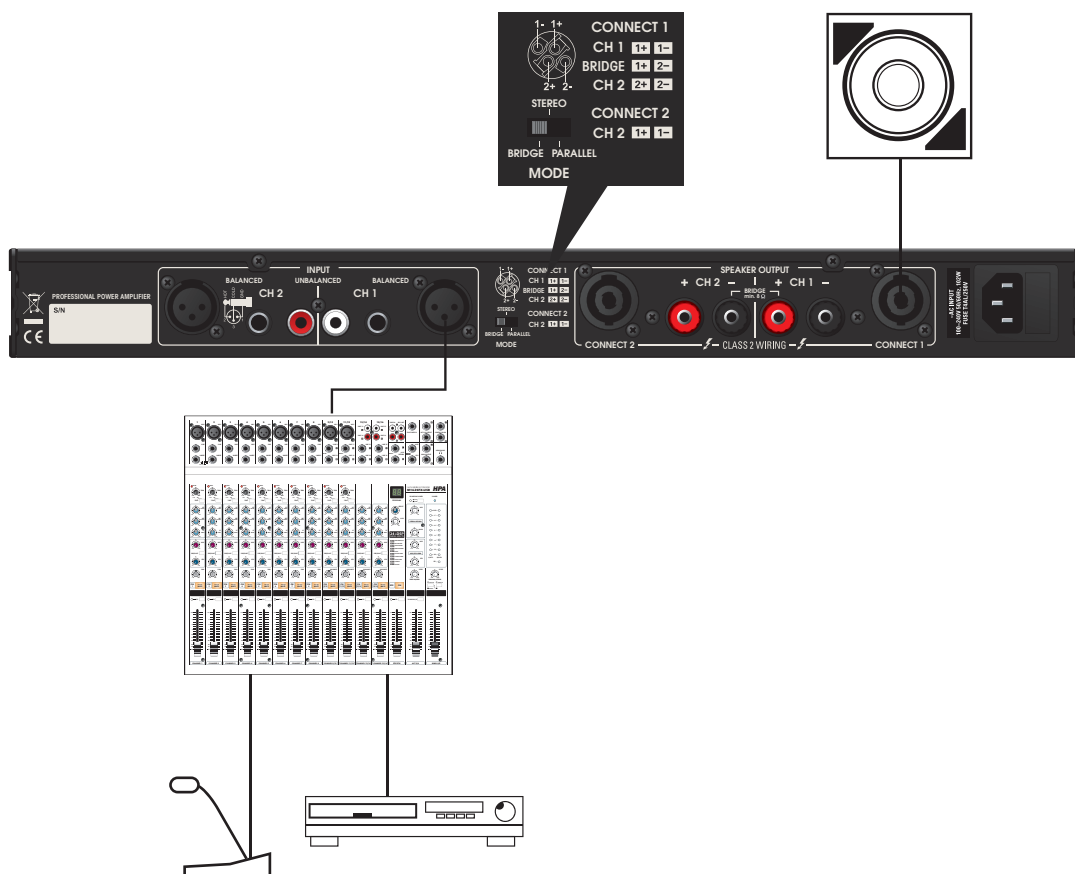




## Bridge-Mono Mode

Bridged-Mono Mode delivers The power of both amp channels into a signal 8ohm load.

- 1.The Mode button should be located to “BRIDGE”.
- 2.Connect signal source to Channel 1 **only** using the Channel 1’s XLR, 1/4 Inch or RAC connectors.
- 3.Connect the speaker as shown.
  - a. If using the Binding Post output, connect the positive terminal of the speaker to the positive terminal of Channel 1 and the negative terminal of speaker to the **negative** terminal of Channel 2.
  - b. If using a Speakon connector, connect the positive terminal of the speaker to 1+ and the negative terminal to 2-. Plug the connector into the Channel 1 output only.

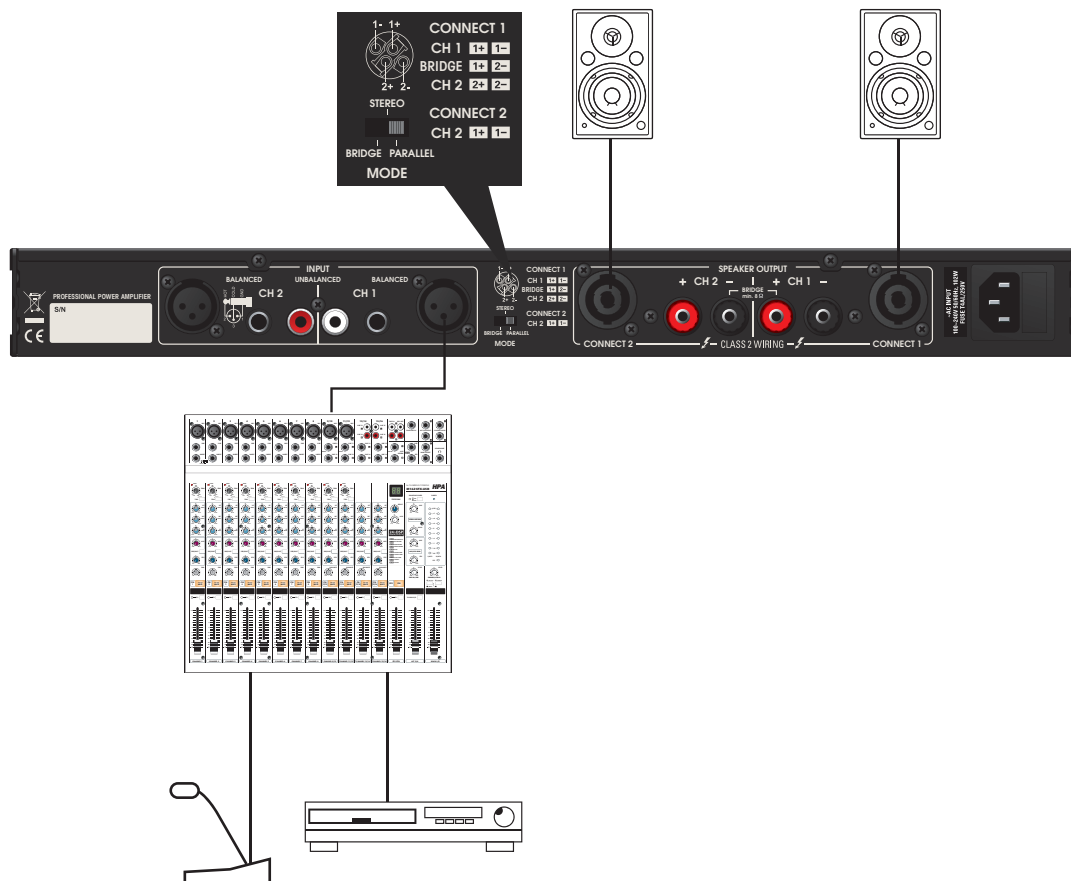


### Parallel Mode

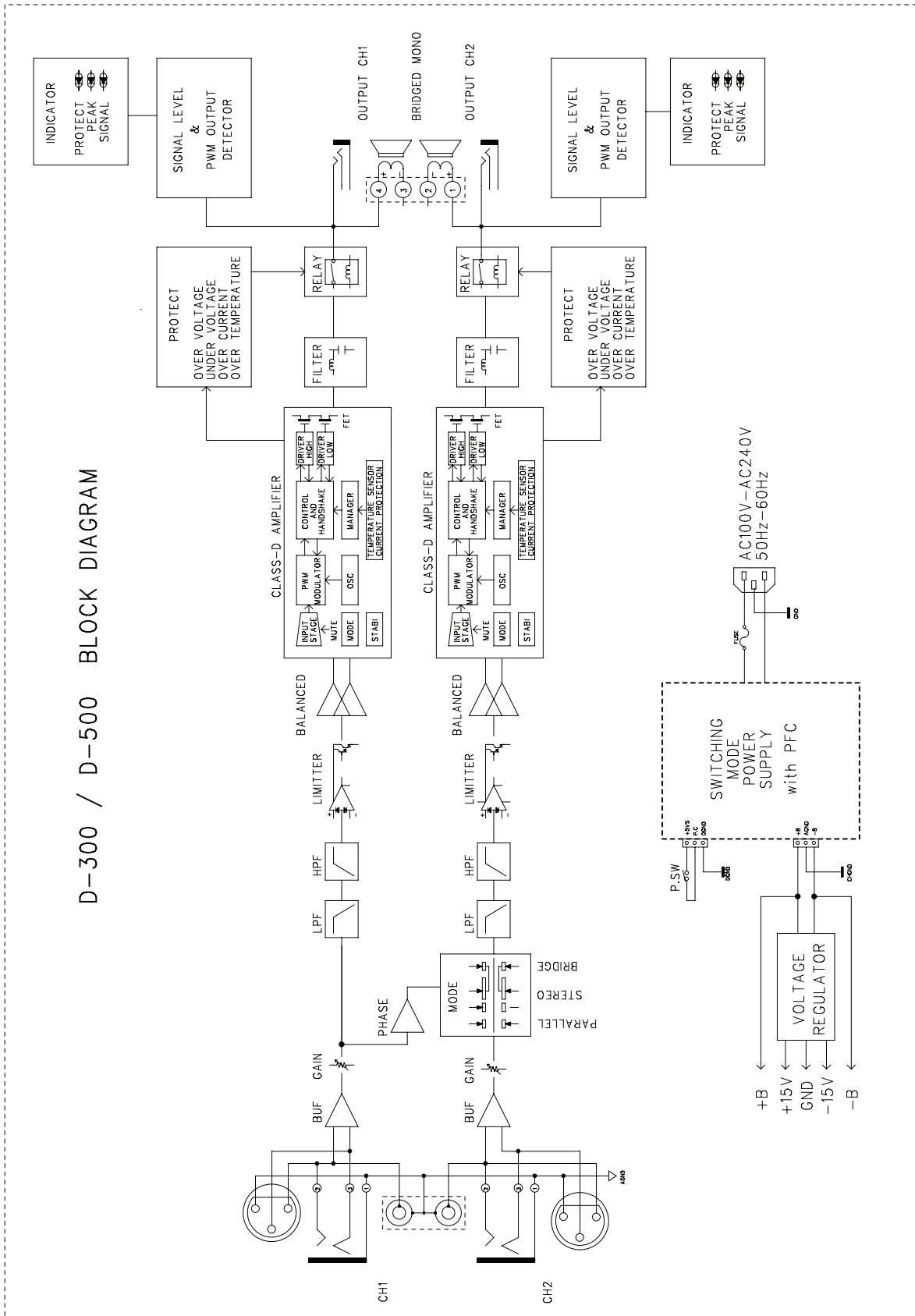
When using the Parallel Mode, the amplifier is configured to use the input on Channel 1 only.

The amplifier allows two different output level of each channels individually by potential meter on the front panel.

1. The Mode button should be located to “PARALLEL”.
2. Connect signal source to Channel 1 **only** using the Channel 1’s XLR, 1/4 Inch or RAC connectors.



# Block diagrams



## Specifications

		D-300	D-500
Input Sensitivity for full output at maximum gain	Balanced XLR Input(Impedance 30kohms)	+4dBu ± 2dB	
	Balanced 1/4 Inch Input(Impedance 30kohms)	+4dBu ± 2dB	
	Unbalanced RCA Input(Impedance 15kohms)	+4dBu ± 2dB	
Frequency Response	at 4 ohms 1watt, 20Hz ~20kHz	+0.5/-1dB	
	Signal to Noise Ratio at rated power output	Less than 90dB	
	Crosstalk at all control maximum	-65dB at 1kHz	
	4ohms Rated Output Power at THD 1.0%	300 Watts	500 Watts
	THD at 1kHz 1/2 rated power	Less than 0.1%	
	Operating Temperature/Humidity at non-condensing	0°~40°C at 95% humidity	
Indicators	PROTECT	DC, Thermal, Over load	
	CLIP	0 dBr	
	SIGNAL	-26 dBr	
POWER SOURCE		AC100V~AC240V 50Hz-60Hz	
<b>Construction</b>			
Cooling		Convection Cooled	
Dimensions (W × H × D)		482mm X 44 mm X 330mm	
Net Weight		4.3 kg	4.7kg

Necessary modifications are carried out without notice.







***HPA***