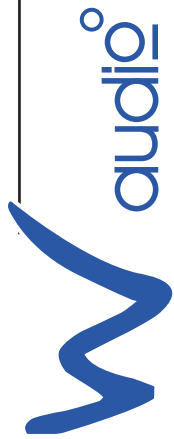


# DA SERIES

PROFESSIONAL POWER AMPLIFIER



**Models:**  
**DA - 300 • DA - 500**  
**DA - 800 • DA - 1000**  
**DA - 1300**

[www.prolight.co.uk](http://www.prolight.co.uk)

ENGLISH

USER MANUAL

## WARNING

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY  
BEFORE YOUR INITIAL START-UP!**



### CAUTION!

**Keep this equipment away from rain,  
moisture and liquids.**



## SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual



**CAUTION! TAKE CARE USING THIS EQUIPMENT!  
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!**



Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

## **IMPORTANT:**

**The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.**

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Do not carry the unit with only one handle. Always carry using both handles.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 220v/240v.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. **THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.**
- **WARRANTY;** One year from date of purchase.

## **OPERATING DETERMINATIONS**

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

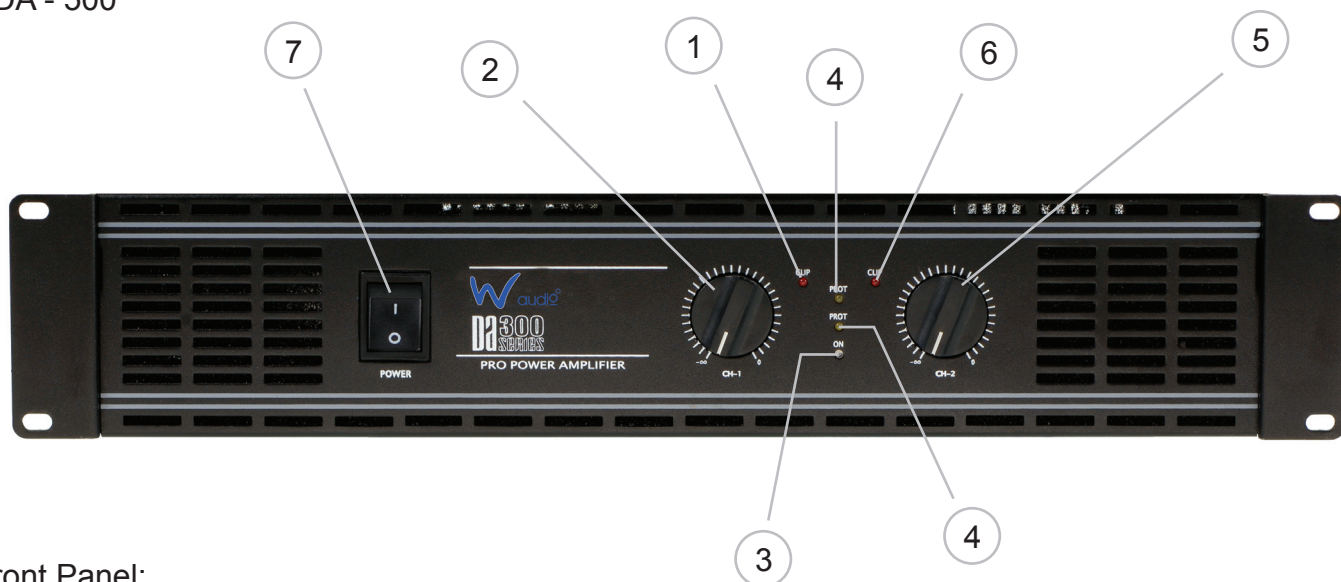
Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

Do not endanger your own safety and the safety of others!  
Incorrect installation or use can cause serious damage to people and property.

## Description of the products

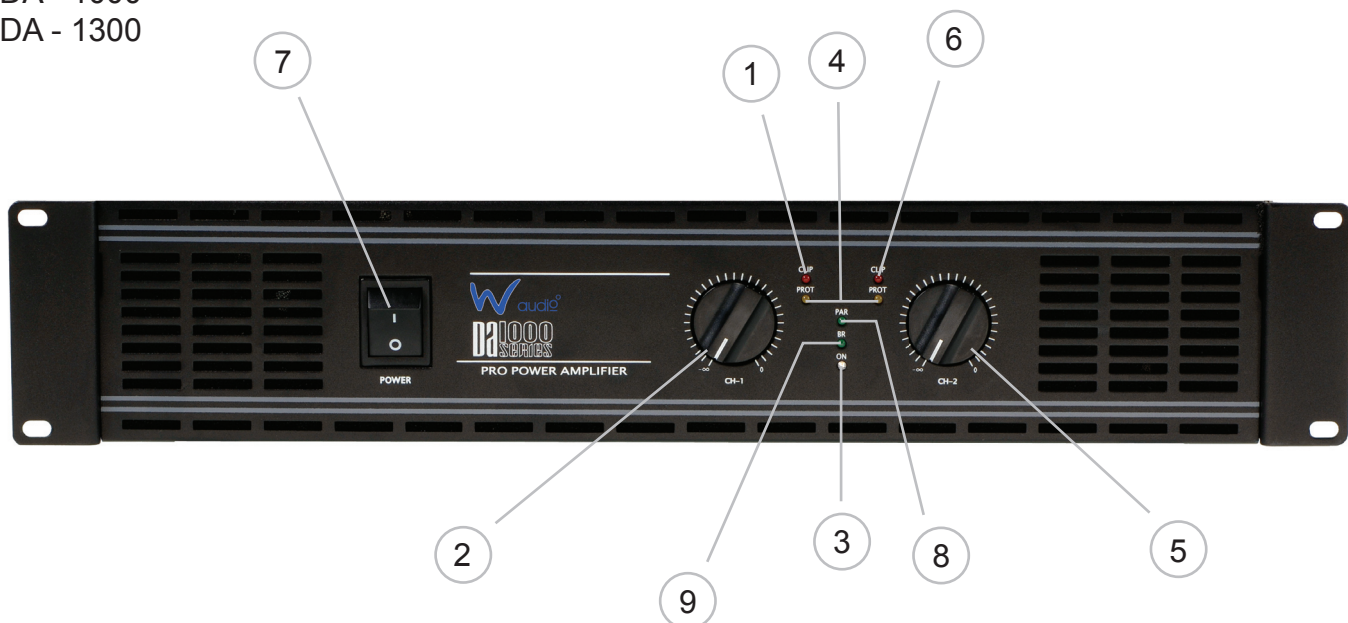
Front Panel:

- DA - 300
- DA - 500



Front Panel:

- DA - 800
- DA - 1000
- DA - 1300

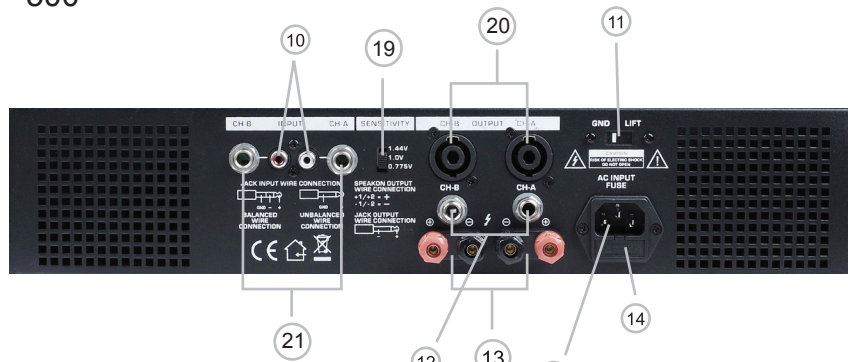


- 1, **Clip LED's** - These LED's flash when the output signal starts distorting.
- 2, **Gain Control: Left Channel** - Adjust the desired volume here.
- 3, **Power LED** - This LED illuminates when the amplifier is switched on.
- 4, **Protect LED** - This LED illuminates when the amplifier is switched on as long as the speakers are not connected with the amplifier. If this LED is illuminated during the operation, one of the protected circuits is active. Please take the amplifier out of operation and check it.
- 5, **Gain Control: Right Channel** - Adjust the desired volume here.
- 6, **Clip LED** - This LED flashes when the output signal starts distorting.
- 7, **Power Switch** - Press this button to start the operation.
- 8, **Parallel LED** - This LED illuminates in parallel.
- 9, **Bridged LED** - This illuminates in bridged mode.

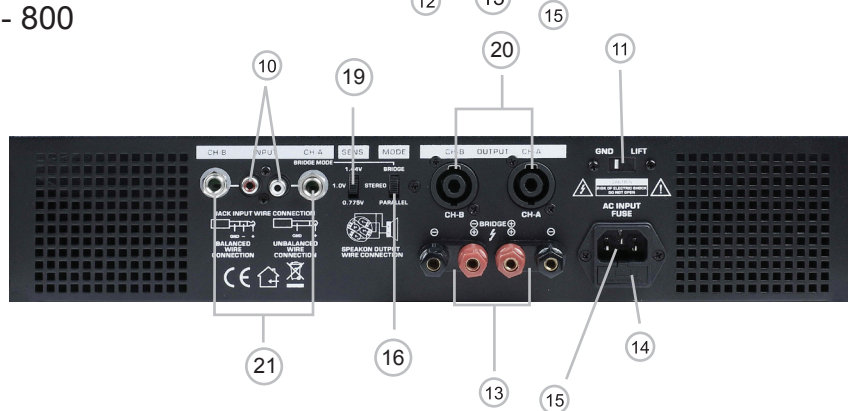


## Description of the products

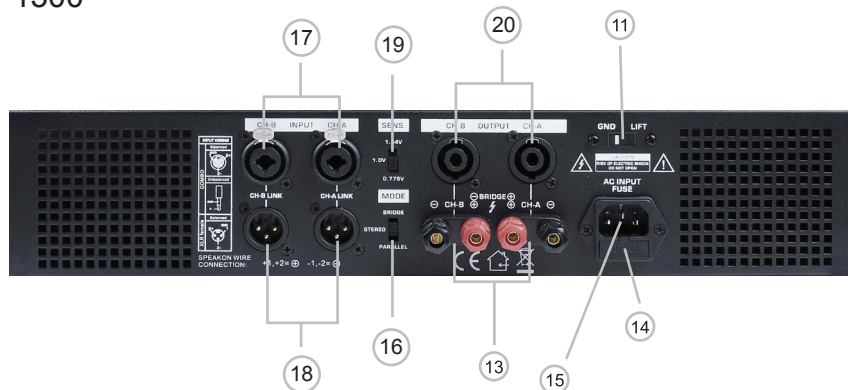
- Rear Panel: • DA - 300  
• DA - 500



- Rear Panel: • DA - 800



- Rear Panel: • DA - 1000  
• DA - 1300



- 10, **Phono Input Sockets** - Connect the input signal here using a Phono (RCA) plug.
- 11, **Ground Lift Selector.**
- 12, **Jack output Sockets** - For connection of the speakers.
- 13, **Bannana/Screw Combination** - For connection of the speakers.
- 14, **Fuse Holder** - Only replace the fuse when the device is disconnected from the mains. Only use fuses of the same rating and power.
- 15, **AC Connection** - Used to plug the power cable in.
- 16, **Parallel/Dual/Bridge Mode Selector** - For selecting the desired operation mode.
- 17, **XLR/JACK combo input socket** - Connect the input signal here using a balanced XLR plug or a 6.35mm mono Jack plug
- 18, **CH1and CH2 XLR output Socket** - Connect the output signal here using a balanced XLR plug
- 19, **Input Sensitivity Selector** - For selecting the desired input sensitivity.
- 20, **Speakon Output Sockets** - For connection of the speakers.
- 21, **Jack Input Socket** - Connect the input signal here using a balanced 1/4" stereo jack.

## Rack Installation

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The DA Series is built for 19" racks (483mm). The rack you use should be a Double Door Rack where you can open the front and rear panel. When mounting the amplifier into the rack, please make sure that there is enough space around the amplifier.

Be careful when mounting the amplifier into the rack. Put the heaviest products into the lower part of the rack. Be aware that fastening the amplifier with four screws on the front panel is not enough.

If the racks are being transported or used for mobile use, additionally fasten the products by connecting the rear brackets with the side or ground bars of the rack. In this way, the amplifier cannot be pushed backwards. The front panel is not designed to absorb acceleration forces occurring during transportation.

## Inputs

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Short cables runs improve the sound quality remarkably. Input cables should be short and direct, since high frequencies will mostly be absorbed if the cables are unnecessarily long. Besides that a longer cable may lead to humming and noise problems. If the cable runs are unavoidable, you should use balanced cables.

## Outputs

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The high damping factor of your amplifier supplies a clear sound reproduction. Unnecessarily long and thin cables will influence the damping factor and thus the low frequencies in a negative way. In order to safeguard good sound quality, the damping factor should lie around 50. The longer a cable has to be the thicker it should be.

Connect your speaker systems via the speakon plugs or thr Bannana/Screw combination (red+, black-)

## Switch Adjustments

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**Ground Lift Switch** - This switch allows the signal ground or chassis ground to be seperated in case of a ground conflict. For highest saftey of the equipment, it is recommended to keep the Ground Lift Switch in the GND FLOATING position. In case of a ground conflict please set the ground lift switch to GND LIFT.

## Connection To The Mains

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Connect the amplifier only after having made sure that the right voltage (240V) is supplied and that the ground lead is earthed. This product falls under Class 1. Do not detach the ground lead.

## Operation

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After having connected your amplifier to the mains, turn both gain controls counter clockwise to the min position. The last product to be switched on is amplifier. The “ON” and “PROTECT” LED light up now. If it does not, check if the amplifier is connected to the mains correctly.

After the turn on delay the speakers are activated (PROTECT-LED is off).

After having set the volume controls of the pre-amplifier in nil position, turn the gain controls of your amplifier to mid-position. Now adjust the volume with the gain controls CH1 and CH2.

All important operating modes of the amplifier are arranged on the front panel.

-20 dB to 30dB	Output level
Clip	Short circuit or impedance too low or signal distorted
Protect	Active during stabilisation period after switching on or when one of the protective circuits are activated

If you want to switch off the system, **switch off the amplifier first** in order to avoid acoustic shocks on the speakers.

## Problem Chart

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PROBLEM	CAUSE	REMEDY
No Power	The power cord is not connected	Check the power cord and any extension cables
No Sound	The power cord of the respective product is not connected properly or not at all.  The connection socket or the plug is dirty	Check the power cord and if the plugs are properly connected with the sockets  Clean the socket and/or the plug
Noise	The input signal is too strong	Reduce the input signal via the gain control
Fan does not work, LED's do not light up	The power cord is not connected	Connect the power cord
Protect LED lights up permanently	Input receive DC voltage  Amplifier overheats due to obstruction  Impedance of speakers too low  Short circuit in speaker connection or in speakers  Technical default or amplifier	Switch amplifier off and have the product checked by a service technician.  Clean the fan grill  Connect other speakers  Check speakers and connections  Switch amplifier off and have the product checked by a service technician.



**CAUTION - DANGER TO LIFE  
DISCONNECT FROM THE MAINS BEFORE  
STARTING MAINTENANCE OPERATION**



## **Cleaning and Maintenance**

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We recommend a frequent cleaning of the product. Please use a soft lint free and moistened cloth. Never use alcohol or solvents.

There are no serviceable parts inside the product except for the fuse. Maintenance and service operations are only to be carried out by authorised dealers.

## **Replacing the fuse**

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Only replace the fuse by a fuse of the same type and rating.

**Before replacing the fuse, unplug the mains lead.**

**Procedure:**

**Step 1: Open fuse holder on the rear panel with a screwdriver.**

**Step 2: Remove the old fuse from the fuse holder.**

**Step 3: Install the new fuse in the fuse holder.**

**Step 4: Replace the fuse holder in the housing.**

Should you need any spare parts, please use genuine parts.

Should you have any further questions, please contact your dealer.



## Specifications

Model no.		DA300	DA500	DA800	DA1000	DA1300
Output power 1 kHz, THD+N ≤0.5%	Stereo 8 Ω	2 x 100 W	2 x 150 W	2 x 250 W	2 x 320 W	2 x 420 W
	Stereo 4 Ω	2 x 150 W	2 x 250 W	2 x 400 W	2 x 500 W	2 x 650 W
	Parallel 8 Ω			2 x 250 W	2 x 320 W	2 x 420 W
	Parallel 4 Ω			2 x 375 W	2 x 480 W	2 x 630 W
	Bridge 8 Ω			800W	1000W	1300W
Frequency response		20 Hz to 20 kHz ±1.0 dB				
Input sensitivity		0.775 V / 1.0V / 1.44V				
S/N ratio (A-weighted, RMS)		>95 dB			>100 dB	
Crosstalk at rated power output (8 Ω at 1 kHz)		>55 dB		>65 dB	>70 dB	
Damping factor (f = 1 kHz at 8 Ω)		>60		>150	>200	
Protection circuits		Soft start(DA800/1000/1300); thermal, short circuit, overload, limit(DA1000/1300), and DC fault protection, AC power supply fuse.				
LED indicators		Power, Protect, Clip/Limit, Bridge(DA800/1000/1300), Parallel(DA800/1000/1300)				
Connectors		Input: 2 Phone-Jack sockets; 2 RCA connectors(DA300/500/800) 2 COMBO; 2 XLR connectors(DA1000/1300) Output: 2 Speakon connectors; 2 pole terminals (binding post)				
Cooling system		Low-noise cooling fans, Variable speed fan				
Power supply		AC240V/ 50HZ				
Dimensions (W×D×H)		483mm x 240mm x 88mm			483mm x 357mm x 88mm	
Net weight		9.2 kg	9.8 kg	11 kg	13 kg	15 kg