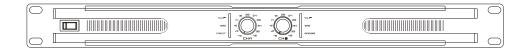
SWITCHING POWER PROFESSIONAL AMPLIFIER

User's Manual

A150.2 /A-300.2



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	WARNING IMPORTANT SAFETY INSTRUCTION INTRODUCTION CONTROL ELEMENTS APPLICATIONS WIRING CONNECTIONS BLOCK DIAGRAM

General Specifications					
Protections	Full short circuit, open circuit, thermal, ultrasonic, and RF protection stable into reactive or mismatched loads, turn ON/OFF, muting, tried crowbar.				
Controls	Front: AC switch, Input level control for each channel Rear: stereo /bridged selector, limit ON/OFF selector				
Indicators	SIGNAL: 2 green LED C PROTECTION: 1 red LED E		POWER: I greenLED PRIOR:green/red LED		
Connectors	INPUT : Active balanced XLR or TRS JACK OUTPUT: TRS JACK and speak-on jacks				
Power Supply	110V-120V or 220V-240V AC 50/60 Hz ±10%				
Dimensions(mm)	483(W)*281(D)*44(H)				
Weight	3.7kg(A150.2)	4.7kg(A300.2)			

IMPORTANT!

Please read this manual carefully before operating this unit for the first time.

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TECHNICAL SPECIFICATIONS

Power Specifications(tolerance +/-5%)		A150.2	A300.2	
	2 ohms(EIAJ)	400W*2	600W*2	
Stereo Mode (Both Channels Drive)	4 ohms(RMS)	180W*2	300W*2	
	8 ohms(RMS)	100W*2	180W*2	
Bridge Mono Mode	8 ohms(RMS)	360W	600W	
	4 ohms(EIAJ)	800W	1200W	
Electrical Specification		•		
Input Sensitivity (Limit Off)		0.9-1.1V(0+/-1dBv)	0.9-1.1V(0+/-1dBv)	
Input Impedance		20k ohms balanced or 10k Ohms unbalanced		
Frequency Response (at 10dB Rated Output Power)		20Hz ~ 20KHz(+0/-1dB)		
Voltage Gain		28+/-0.5dB	30+/-0.5dB	
THD+N (Ref.1K 1/8Rated Power,A-Weighted)		<0.05%	<0.05%	
S/N rate (Ref. Rated Power, A-Weighted)		>96dB	>98dB	
Crosstalk (Below Rated Power)		>70dB	>70dB	
Damping Factor(1K 8 ohms)		> 180	>180	
Power/Output Circuitry		Switching Power Class D	Switching Power Class D	

SAFETY RELATED SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions.

The symbol is used in the service documentation to indicate that specific component shall be only replaced by the component specified in that Documentation for safety reasons.

- \bigcirc Protective grounding terminal.
- $\sim~$ Alternating current /voltage.
- 4 Hazardous live terminal .
- ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

WARNING

Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

• External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

• Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

• Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

• Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

• Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water. Install in accordance with the manufacture-r's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.

• Power Cord and Plug

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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Cleaning

When the apparatus needs a cleaning, you can blow off dust from the apparatus with

a blower or clean with rag etc.

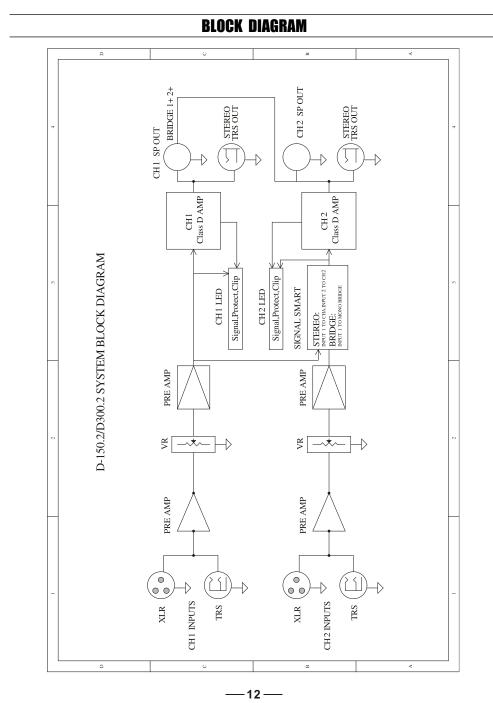
Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body. Clean only with dry cloth.

Servicing

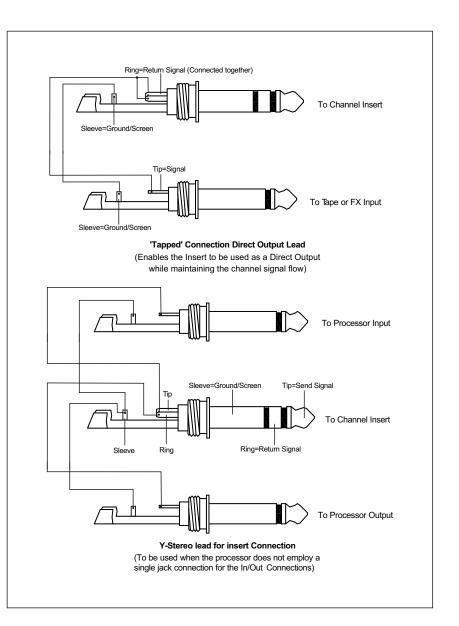
Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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.

The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.



INTRODUCTION

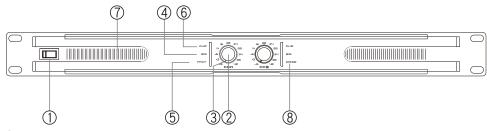


The A150.2 / A300.2 switching power professional Amplifier is designed for professional use on stage. The high-quality components and the carefully designed circuits ensure excellent audio performance and an extremely linear frequency response. In fact, the switching technology offers, together with an increased efficiency and a better control of heat dissipation than conventional power supply systems, a drastic reduction of dimensions and weight, for easier transportation and installation. This Amplifier guarantees total reliability and a trouble-free use even in the most demanding conditions. We believe the A150.2 / A300.2 will provide a perfect performance, what you get is unprecedented performance at an incredibly attractive price.

Features:

*High current switching power allowing high power output with low noise and low distortion
*Substantial protection circuitry like thermal, short circuit, power on/off muting and Therefore protection
*Built-in limiter
*Balanced XLR-TRS combo input jack
*I/4" TRS jack and Speakon output connectors
*front mounted gain controls for easy access
*Signal, Clip protect, and Power LED indicators to monitor performance.

CONTROL ELEMENTS



1 Power Switch

It switches ON/OFF the unit main power.

2 Level Control

These volume controls allow you to adjust the volume level.

③ Power/Prior LED

The Green LED light up when the amplifier power on.

The Red LED light up when the amplifier input priority.

4 Signal LED

These green LEDs light up when the respective channel's output signal pass through.

⑤ Protection LED

In normal operation, the LED will not illume; If the LED turns red, it means the unit is in heat protection without s ound output. The speaker system is actually disconnected from the amplifier outputs when this LED is red, the temperature must be reduced by good ventilation and the signal level decreased etc, if the problem is resolved. the protection output systems will deactivate automatically, and normal amplifier operation is resumed.

6 Clip LED

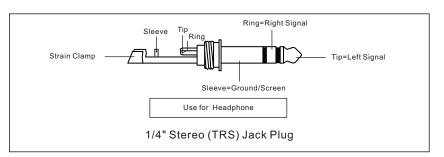
This red LED lights up when the input signal is too strong. it is time to reduce in put level until clip LED turns off.

\bigcirc Air Intake Vents

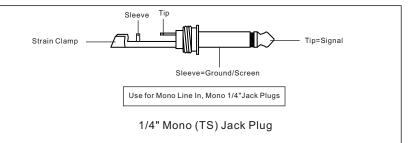
A150.2/A300.2 employ a variable speed internal cooling fan to intake the air through front grill to keep it running cool even under extreme operating conditions. Please keep these vents clear and free from obstruction at all times to insure proper cooling.

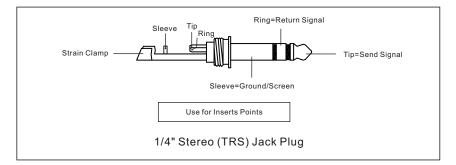
8 Bridged LED

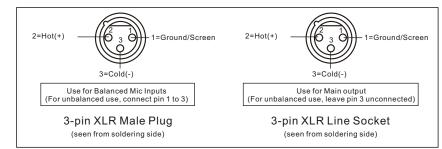
The Bridged LED light up when the amplifier is Bridged Mode.



WIRING CONNECTIONS







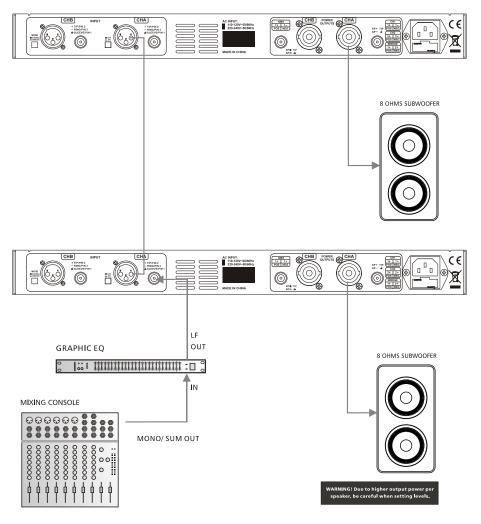
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REAR PANEL

Patching two bridge mono mode system

Two bridge mono amplifiers can be patched together (operated in mono mode) by connecting signal cable between their input jacks. The signal smart switch must be set to the bridge position.

SWITCH SET TO BRIDGE





(1) AC Input

Use it to connect your AI 50.2/A300.2 to the supplied AC cord.

(2) Channel | XLR Input

This XLR jack will accept any balanced or unbalanced low impedance line level source by means of a three-pin XLR plug. The wiring for the plug is as follows: Pin I = Ground, Pin 2 = SignaI +, Pin 3 = SignaI.

(3) Channel | TRS Input

This TRS(1/4') jack will accept line level signal sources by means of cables fit with standard 1/4'' phone plugs. This input are compatible with balanced and unbalanced low impedance, and high impedance sources. Low impedance balanced input is to be wired as follows: Tip=signal+, Ring= signal-, Sleeve=Ground.

(4) Channel 2 XLR Input

This XLR jack will accept any balanced or unbalanced low impedance line level source by means of a three-pin XLR plug.

(5) Channel 2 TRS Input

This TRS(1/4') jack will accept line level signal sources by means of cables fit with standard 1/4'' phone plug.

6 Signal Smart Switch

Use this switch to select the operating mode of the amplifier. The switch functions as follows: STEREO: input I to CH I amp, input 2 to CH 2 amp; BRIDGE: input I to Mono Bridge amps.

(7) Channel I Speakon NL-4R

Connect the amplifier to your speakers using these speakon jacks.

8 Channel | TRS (1/4") jack

Connect the amplifier to your speakers using these speakon jacks.

(9) Channel 2 Speakon NL-4R

Connect the amplifier to your speakers using these speakon jacks.

(1) Channel 2 TRS (1/4") jack

Connect the amplifier to your speakers using these speakon jacks.

(1) Limit Switch

Control the built-in limiter on/off.

2 Exhaust Vents

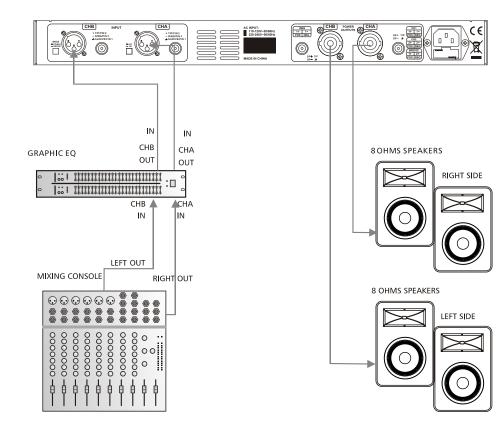
Air is drawn from front grilles, flown through the unit and heat sink, and then exhausted via the rear vents. Do not block or impede the air flow through these vents and keep the vent areas free of foreign materials.

APPLICATIONS

Stereo Operation

A150.2/A300.2 can be used in the stereo mode as two separate 300/600 watt units, each capable of driving loads down to 4 ohms. Each channel operates independently and has its own input connectors, sensitivity level controls, signal indicator LEDs, automatic limiter, fault protection circuitry, power amp, and speaker outputs. In the stereo mode, the signal smart switch must be set to the stereo position. One application of the stereo mode uses one channel of the amplifier for the left house speakers and the other channel for the right. The mixing board channels can be panned left or right according to the position of the instruments on the stage. This approach provides a more accurate reproduction of the live performance.

SWITCH SET TO STEREO

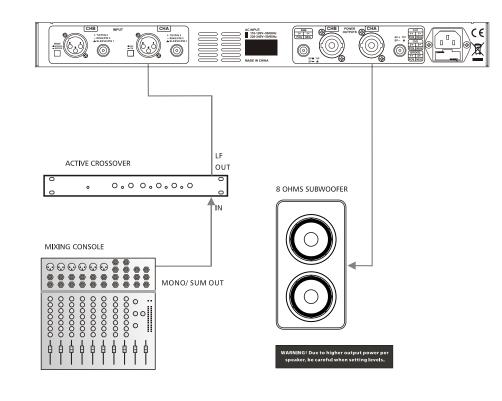


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Mono Bridge Operation

The two internal power amplifiers(CHA and CHB) can be bridged together to form a single, higher powered amp. This is especially useful when using the amplifier to power a subwoofer. In the mon o mode, the amplifier uses the channel I input jacks and sensitivity control(channel 2's are disabled). When operation in this mode, each channel is independently protected. The signal smart switch must be set to the bridge position and the minimum speaker load impedance must be 8 ohms.

SWITCH SET TO BRIDGE



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