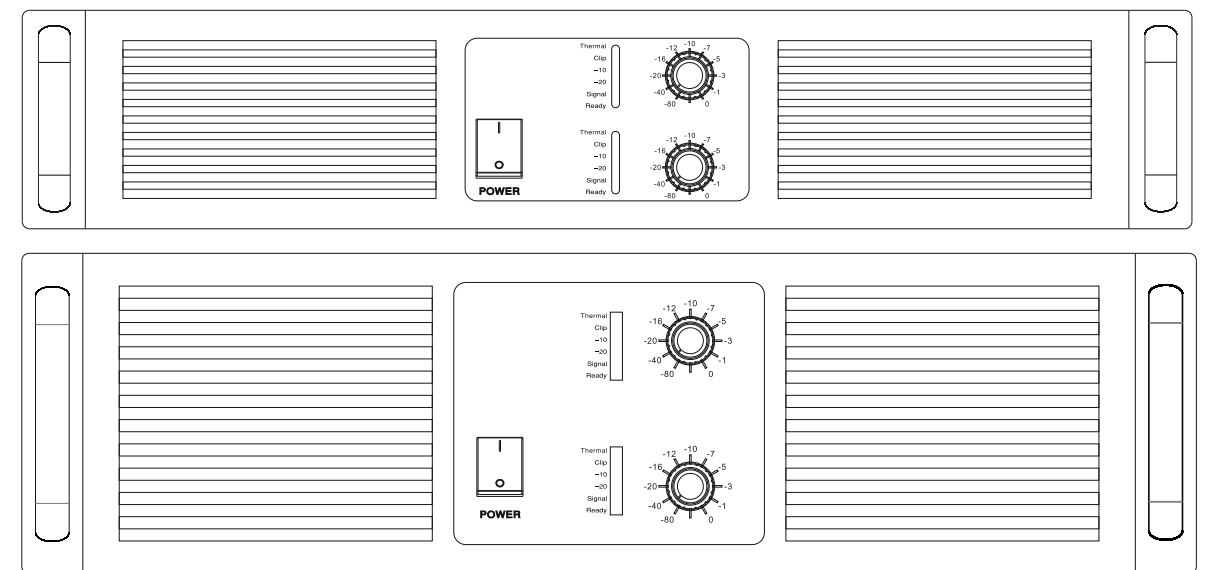


AUDIO MASTER®
A SERIES
2 CHANNELS POWER AMPLIFIER
USER'S MANUAL



TWO CHANNELS POWER AMPLIFIER
CLASS AB / CLASS H

PROFESSIONAL POWER AMPLIFIER
CLASS AB / CLASS H

CATALOG TWO CHANNEL POWER AMPLIFIER

Important precautions and application range
Foreword

Product brief introduction

Front panel function introduction

Rear panel function introduction

System connection cases

Specification

Malfunction elimination

IMPORTANT PRECAUTIONS AND SIGN EXPLANATION

- 1.Read these prescripts.
- 2.Keep this user manual
- 3.Pay attention to all the notice
- 4.Comply with these prescripts
- 5.Warming:to avoid causing fire or hit by the thunder,don't put the equipment in the rain or in the wet environment.
- 6.Wiped by dry cloth
- 7.Don't wall up the intake
- 8.Don't install near the heat headstream like radiator,heat adjust setting,camp stove etc.(including amplifier)
- 9.Don't make the grounded plug invalidation,this equipment should be connection to the plug through protective grounded plug.
- 10.Protect the wire from being trampled or extruded,especially the plug,power plug and the connector of it.
- 11.Please turn off the power amplifier power before take off the electronic wire,signal wire or to change the switching of input mode and cut the limiter.
- 12.Please use under suitable voltage remarked on the back panel. If the equipment is damaged because of using the wrong voltage,we will charge from service.
- 13.If one signal is used in more than one power amplifiers,suggest using signal assigner.
- 14.Don't connect the output interface of one channel to the input interface of another channel in the power amplifier. Don't connect one power amplifier to another one by connecting their output in series or parallel connection.
- 15.To matching with the power amplifier,the power of the power amplifier should be 50%-100% more than the loudspeaker power.
- 16.When mend the power amplifier,don't connect the probe of the oscilloscope to the output interface under bridge in case of damaging the power amplifier and the oscilloscope.
- 17.Please use the sequence power if more than one power amplifiers are used at the same time.



Warning:there is important information in this manual users. This product correct volt is 230.



There are non-insulated parts with dangerous voltage,which can make people get an electricshock in the equipment. So please don't open the cover. If maintenance is needed,please ask the professional for repair or return to the factory.

No response

Make sure that the AC cord is completely inserted in the socket with electricity. Try to use other equipment to test the AC power, like the lamp. Check whether the power switch at the front panel is on or not. If yes, then the amplifier is in need of maintenance.

Amplifier loses voice

If the amplifier over loads too much, fans runs in full speed and increasing temperature will automatically reduces the circuitry and volume so as to prevent mute error caused by overheat. After the input signal decrease appropriately, amplifier will return to normal gain in 1-2 minutes. The protect light in the front panel turns off the maintenance is required.

input of channel 2 seems of no avail.

Check whether the mode switch at the rear panel is at the stereo position. With parallel and bridge, input of channel 2 is of no avail.

Sensitivity for both channels is inconsistent

Make sure whether the setting of volume controller is consistent or not.(suggestion:turn the volume to 0 dB at the normal operation.) Make sure whether the impendence of output speaker is consistent or not.

Amplifier sound is distorted

If the red CLIP LED is flashing, that means the amplifier works beyond the normal rated power. Clip circuit will appropriately reduce the volume to avoid a serious overload, but if the input signal continues to increase, limiter may be crossed, resulting in increase distortion. If the speaker or the speaker cable suffers short circuit or malfunction, and the loading is below the normal level, the amplifier will get distortion or no sound, and the red clip LED light will flicker more, or the protect LED light will be on. The other speakers or cable should be used for inspection.

If impedance of each channel is less than 2 ohm, connecting too much speakers will be very easy to get the amplifier overload and burnt. If the sound is distorted or not clear, but the red CLIP LED does not flicker, thus there is no distortion within the amplifier. Speaker may be damaged or input signal gets distortion.

- 1.Use other equipment to check the whether the speaker is in good condition or not.
- 2.If the amplifier's gain control sets over low, it may lead to input over load and over-loaded operation of input source. Thus reduce the volume until the distortion disappears, and raise the amplifier gain to idea level.
Generally, it is better to set the gain at the max level(0dB)or close to max level.
- 3.Check all input connection. Don't connect two different sound source with the same channel. Suggest using mixer to mix the sound resource.

No sound, only with green “on” LED lighting.

Confirm if the gain control is turned on. Confirm if both ends of the input cable is installed correctly. Confirm if to check or connect other amplifier to present sound source to check.
No sound but signal LED with slight light states that the amplifier has signal output,so sound shall be heard if connect the speaker. Use other to check the connection of speaker.

No sound with PRT light on

When opening or closing, the amplifier is in temporary silence so as to avoiding acoustical shock. If amplifier is with serious over heat and in silence as well, keep the amplifier as it is until it turns cool. The fans will run in full speed, but the sound will be recovered in a minute. If the amplifier touches hot, and the fans don't work, maintenance for amplifier is required.

Amplifier drones

Balanced XLR cable is more suitable for long distance operation. If the unbalanced connection(signal-core cable) is adopted, drone may be a problem since generally the signal-core leads in interference.
According to the different connecting type, drone may appear earlier in the signal chain. If the total power is not too large, it will benefit a lot to make all plug in the same AC jumper.
Finally, moderate drone sometimes can be reduced throng decreasing amplifier gain and raising high source gain for compensation. But the sound source must be guaranteed offering large enough sound so as not to cause over load distortion. If the drone isn't reduced, perhaps it is from sound source.

Below are the connections when power amplifier needs service:

- 1.Amplifier smoked or smelled burning.
- 2.Cabinet has severe indentation and deformation.
- 3.Amplifier are dipped into the liquid.
- 4.Internal components loosen
- 5.The circuit breaker on the rear panel skips out when current increases.

Model	A1000	A1200	A1400
8 ohm stereo power**	1000Wx2	1200Wx2	1400Wx2
4 ohm stereo power**	1500Wx2	1800Wx2	2100Wx2
2 ohm stereo power**	2250Vx2	2400Wx2	2800Wx2
8 ohm bridge power**	3000W	3600W	4200W
4 ohm bridge power**	400W	4800W	5600W
Other specification			
Frequency Response	20Hz-20KHz±0.3dB		
THD+N	<0.05%@8Ω 1KHz		
S/N Ratio	>93dB		
Slew Ratio	35V/μS		
Damping Factor	>800		
Crosstalk	>70dB@8Ω 1KHz		
Input Sensitivity	0.775V/1.0V/1.4V		
Input impedance(balance/unbalance)	10KΩ/20KΩ		
Voltage gain(sensitivity:8ohm)	38dB		
Output Circuitry	Class H	Class H	Class H
Cooling	Air flow from front to rear		
Protection	Soft start,DC, short circuit,over load,Clip limit,over heat,progressive volume		
Connector			
Input	XLR-F,TRS,XLR-F,XLR-M		
Output	two red and black binding posts		
Indictor			
Front panel	Front panel indicator:signal,clip,protect,power indicator,bridge,parallel power switch,volume control knob		
Rear panel	Stereo / parallel / bridge switch,input sensitivity switch,low pass filter,high pass filter, grounding switch		
Dimension/weight			
Product Dimensions (L*W*H)	515*485*133(3U)		
Packing Dimensions (L*W*H)	665*590*203		
G.W(±5KG)	40KG	42KG	44KG
Power cord	removable american 13A		
	AC110V/60HZ		
	AC230V/50HZ		

- Remark:
1. The power is tested under the condition of 40ms burst,1khz sine wave and 1% THD.
 2. Other data is tested under CE / ROSH standard.
 3. The power test marked with can't be used the power sine wave signal directly to test,or the DC insurance and other components may be broken.
 4. The final specification is subject to the user manual.

WELCOME

Thank you very much for purchasing our products.
The two channels professional power amplifier made from our patent technique Class H.
It is suitable for small scale performance,Karaoke room, entertainment club, etc. In order to make better operation, please read this manual carefully.

TO UNCLOSE THE PACK

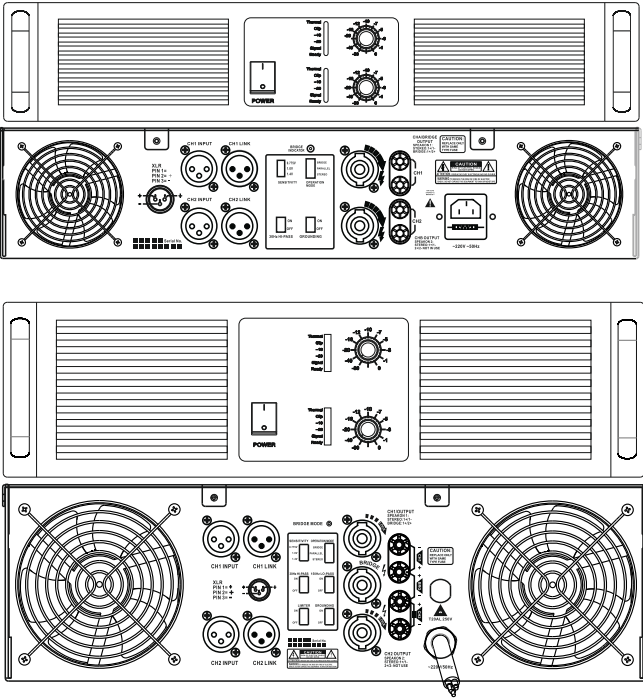
Please make sure if the appearance of the power amplifier was damaged or not during the transportation after you opened the package. Please make sure the preset voltage is matched with your local AC voltage (please check into it on the real panel of the power amplifier). We suggest you retain in package in case you need them for further transportation.

IMPORTANT PRECAUTION

The design of products has already taken the safe requirement in to consideration and all the finished products have been tested under the requirement of the government before sale. Users should read the notice in this manual before operation as there is dangerous high voltage and electricity inter the products. It will increase the change of getting shock by the electricity if the product falls down, recess in the appearance,soaked or there were some parts loose internal. If there are problems above,please turn off power immediately and send the defective units to local distributor for service.

INTRODUCTION

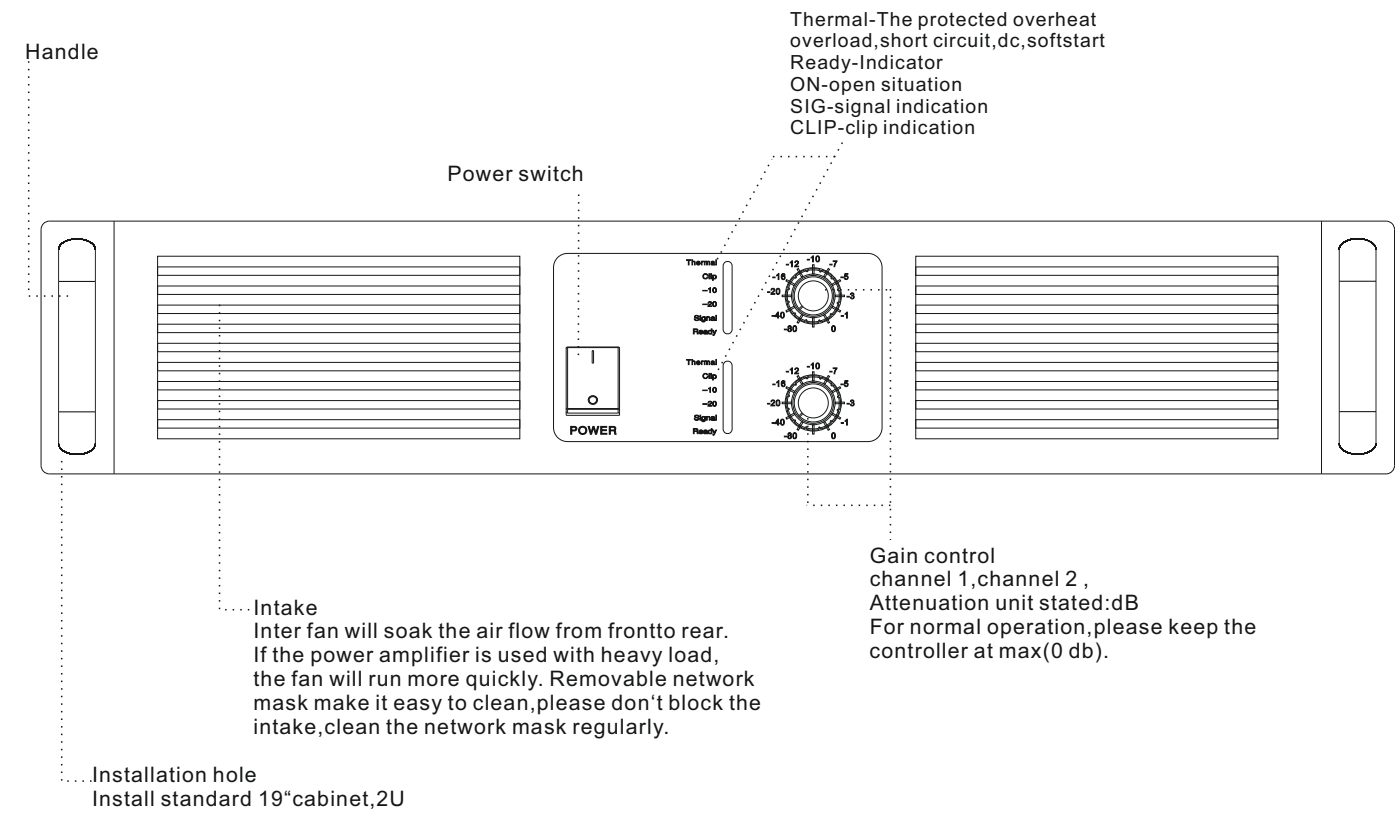
Our professional power amplifier is adopted stylish design integrated with new-launched high performance Class H amplifier and analog transformer power supply. It is designed for Karaoke room. It adopts high sound quality power transistor, with the characteristic of high power efficiency and good sound.



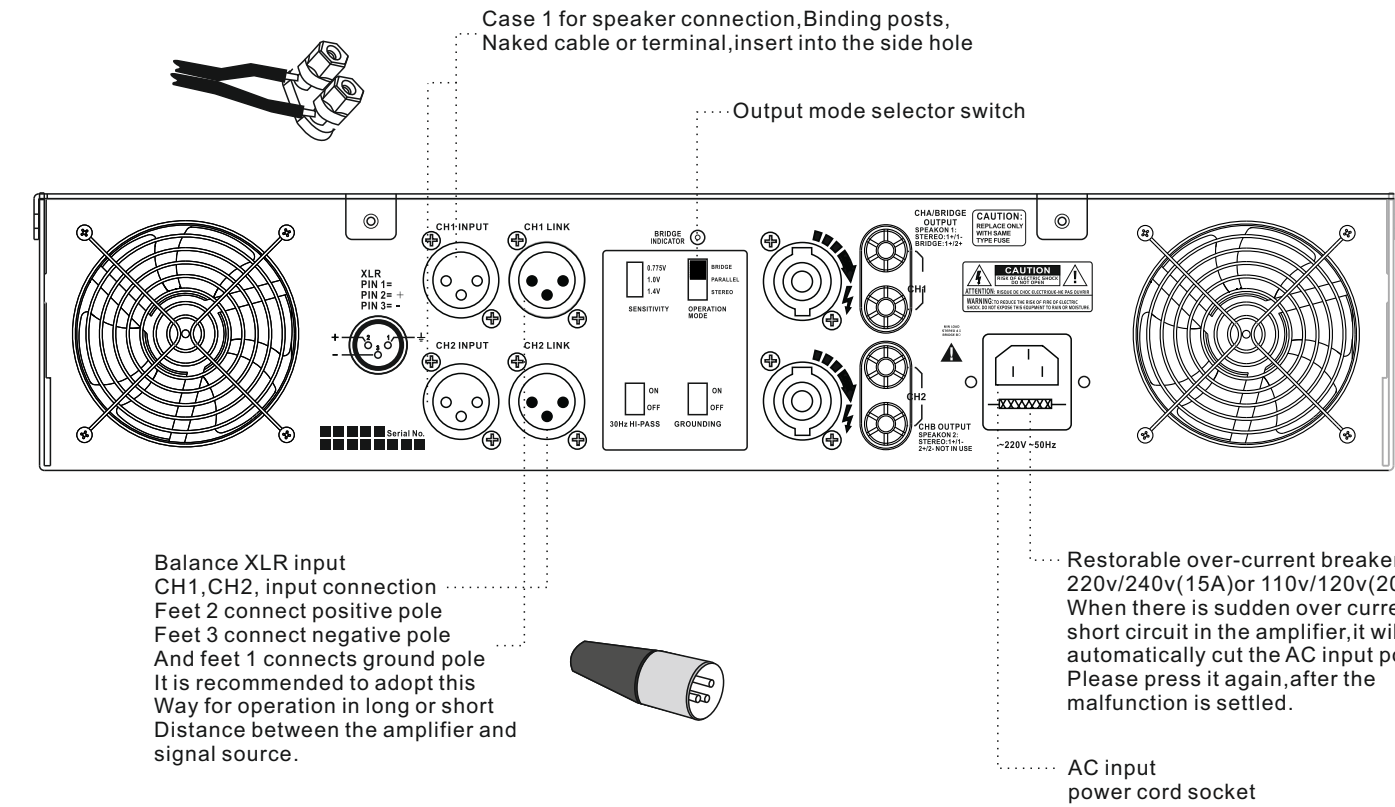
TECHNOLOGY HIGHLIGHTS

Low noise figure, suitable for various occasions
Power soft start impact resistant, overload, overheat protection, work well and reliable Input and output signal comparison circuit, less chopped, clipping limiting function to protect speaker system Frequency sweep are accurate and natuarl to control speaker system Stereo, bridge, multiple and speakon caron socket input/output, then connect speakers fast and reliably Working state of positive LED light, easy to operation and adjust music.

FUNCTION INTRODUCTION OF FRONT PANEL



BACK PANEL FUNCTION INTRODUCTION



Model	A200	A400	A600	A800
8 ohm stereo power**	250Wx2	400Wx2	600Wx2	800Wx2
4 ohm stereo power**	375Wx2	600Wx2	780Wx2	1200Wx2
2 ohm stereo power**	500Wx2	800Wx2	1200Wx2	1600Wx2
8 ohm bridge power**	700W	1200W	1800W	2400W
4 ohm bridge power**	1000W	1600W	2400W	3200W
Other specification				
Frequency Response	20Hz-20KHz±0.3dB			
THD+N	<0.05%@8Ω 1KHz			
S/N Ratio	>95dB	>95dB	>95dB	>93dB
Slew Ratio	35V/μS			
Damping Factor	>800			
Crosstalk	>70dB@8Ω 1KHz			
Input Sensitivity	0.775V/1.0V/1.4V			
Input impedance(balance/unbalance)	10KΩ/20KΩ			
Voltage gain(sensitivity:8ohm)	38dB			
Output Circuitry	Class AB	Class H	Class H	Class H
Cooling	Air flow from front to rear			
Protection	Soft start,DC, short circuit,over load,Clip limit,over heat,progressive volume			
Connector				
Input	XLR-F,TRS,XLR-F,XLR-M			
Output	two red and black binding posts			
Indicator				
Front panel	Front panel indicator:signal,clip,protect,power indicator,bridge,parallel power switch,volume control knob			
Rear panel	Stereo / parallel / bridge switch,input sensitivity switch,low pass filter,high pass filter, grounding switch			
Dimension/weight				
Product Dimensions (L*W*H)	500*485*88(2U)			
Packing Dimensions (L*W*H)	599*568*155			
G.W(±5KG)	20KG	22KG	24KG	28KG
Power cord	removable american 13A			
	AC110V/60HZ			
	AC230V/50HZ			

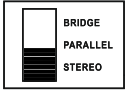
Remark:

1. The power is tested under the condition of 40ms burst,1khz sine wave and 1% THD.
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4. The final specification is subject to the user manual.

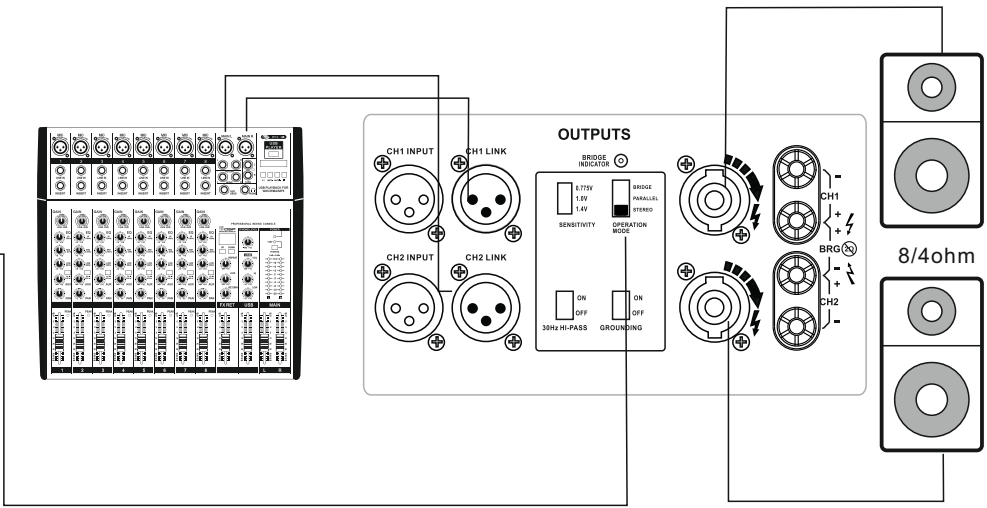
SYSTEM CONNECTION INTRODUCTION

Stereo mode
move mode switch to
stereo position

STEREO

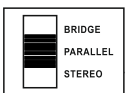


Respectively connect the left
& right signal source with CH1
and CH2.
The output terminals respectively
connect with a speaker.

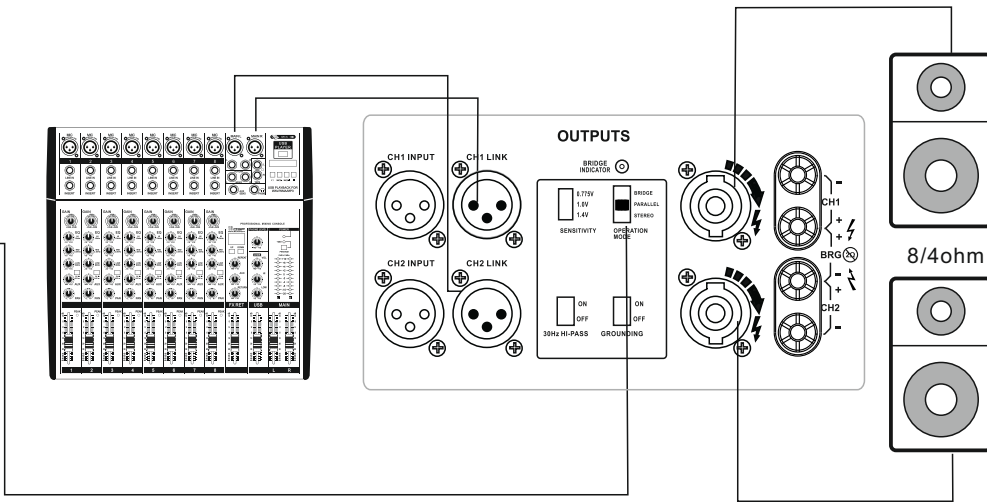


Parallel mode
Move the mode switch to
parallel position.

PARALLEL

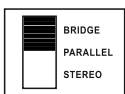


The output terminal of each
channel
Respectively connect speaker
The output volume of each
channel is controlled by the
volume knob at the front panel.

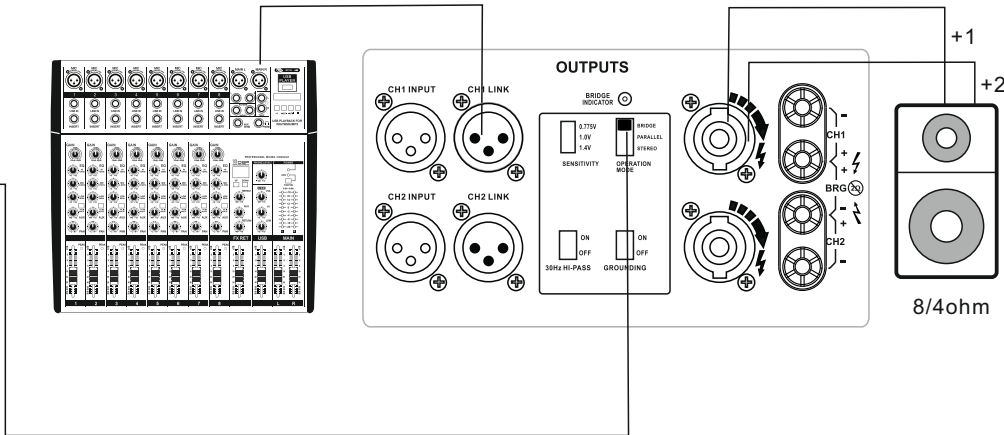


Bridge mode
Move the mode switch to
bridge position.

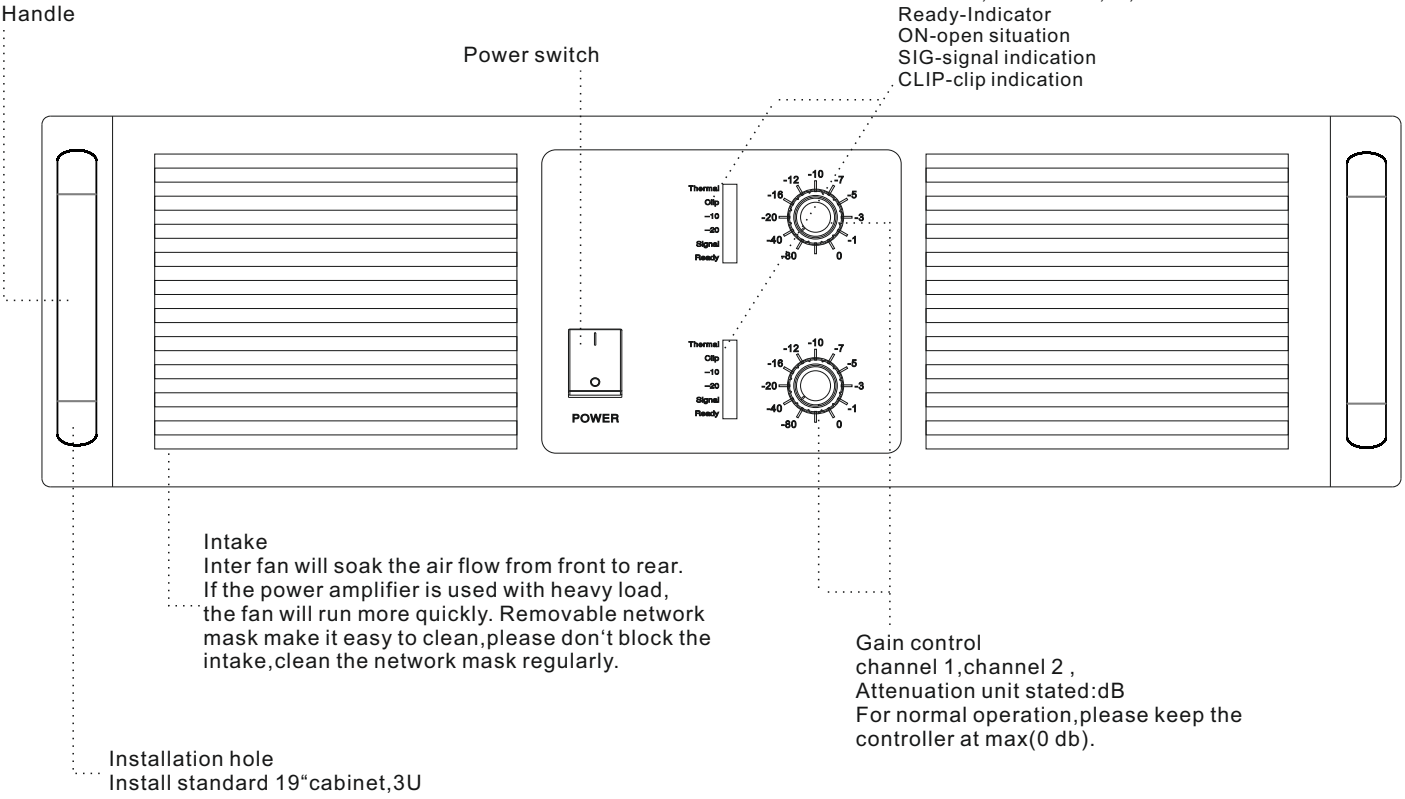
BRIDGE



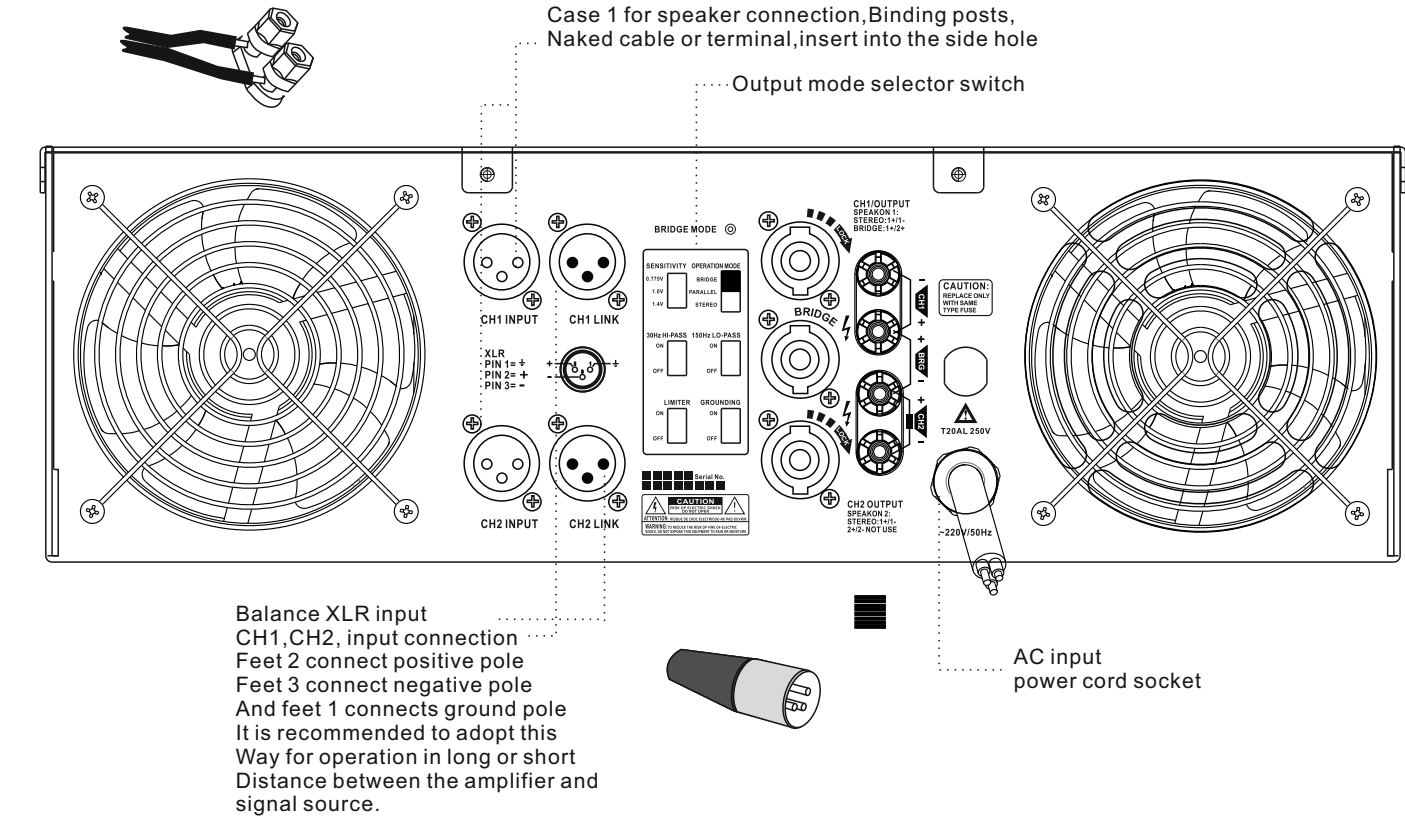
Connect the positive terminal
of both channels to speakers.
The output volume is controlled
by CH1/CH3 volume knob at the
front panel.
SPEAKON caron socket or terminal
Connection mode:+1+2.



FUNCTION INTRODUCTION OF FRONT PANEL(3U)



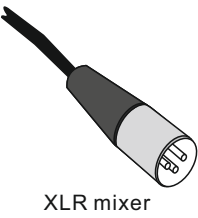
BACK PANEL FUNCTION INTRODUCTION



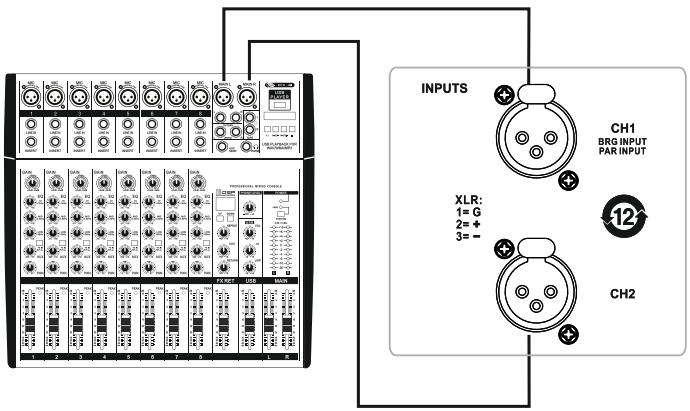
SYSTEM CONNECTION CASE 1

TWO CHANNELS POWER AMPLIFIER

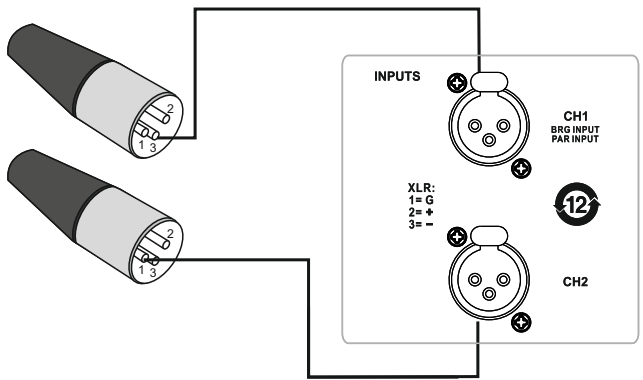
Input connection



XLR mixer

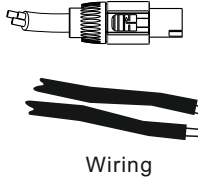


Balanced connection
Feet 2 to positive pole
Feet 3 to negative pole
Feet 1 to grounding pole

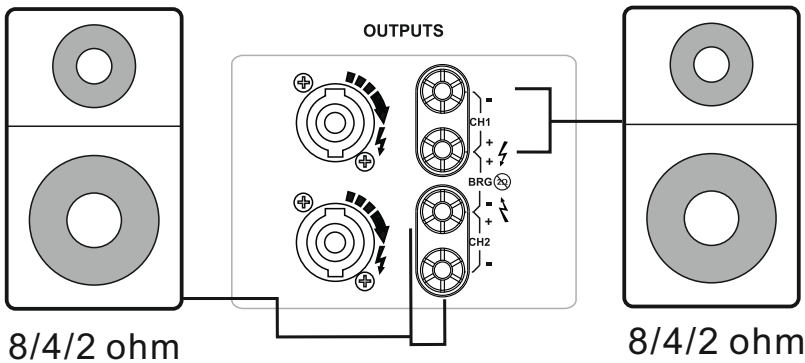


Unbalanced connection
Feet 2 to positive pole & feet 1 & feet 3 to negative pole.
This connection is only applied for short distance transport between amplifier and signal source, and may cause noise in different application environment. (suggest no use)

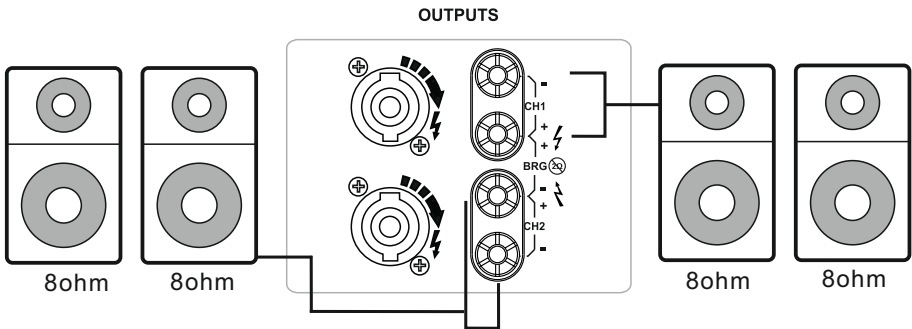
Speaker connection at stereo or parallel output
SPEAKON caron socket or terminal
Connection mode: +1-1.



Wiring



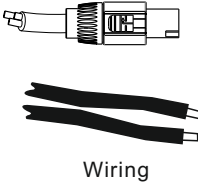
Each channel can respectively connect two 8 ohm speakers.
Speaker connection at stereo or parallel output.



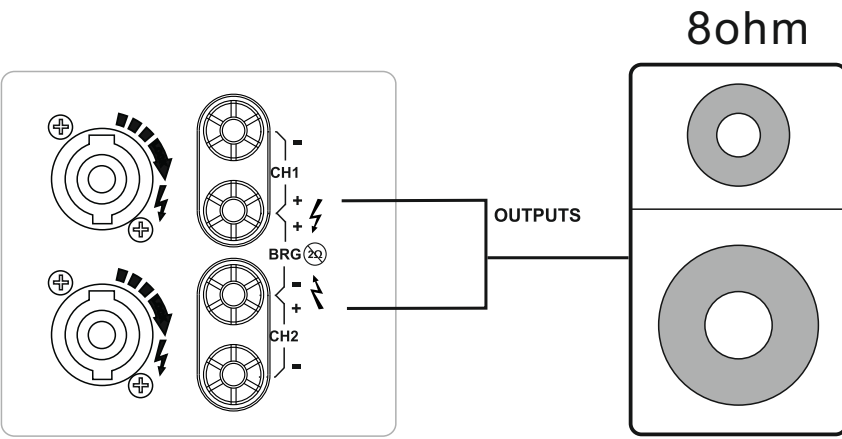
SYSTEM CONNECTION CASE 2

TWO CHANNELS POWER AMPLIFIER

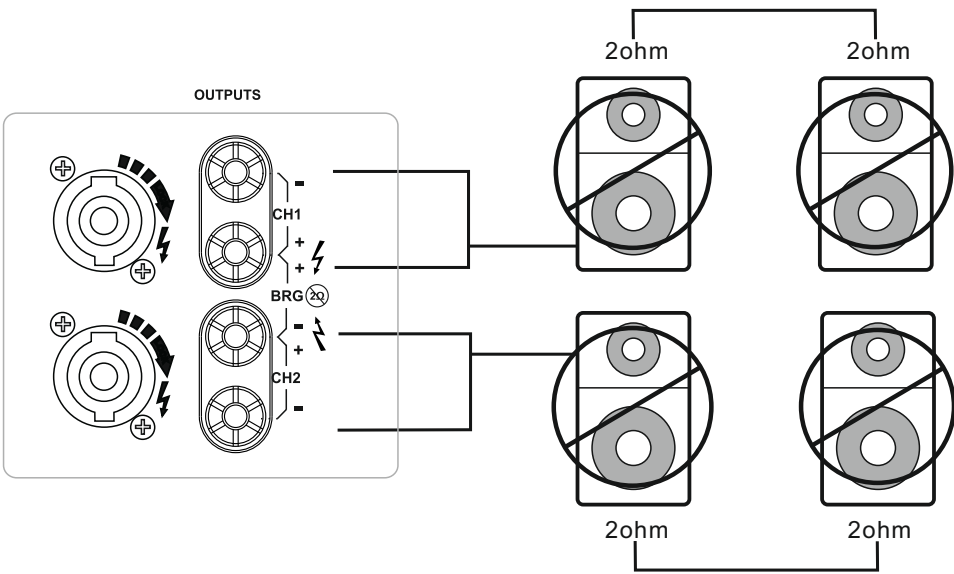
Speaker connection at bridge or parallel output
SPEAKON caron socket or terminal
Connection mode: +1+2.



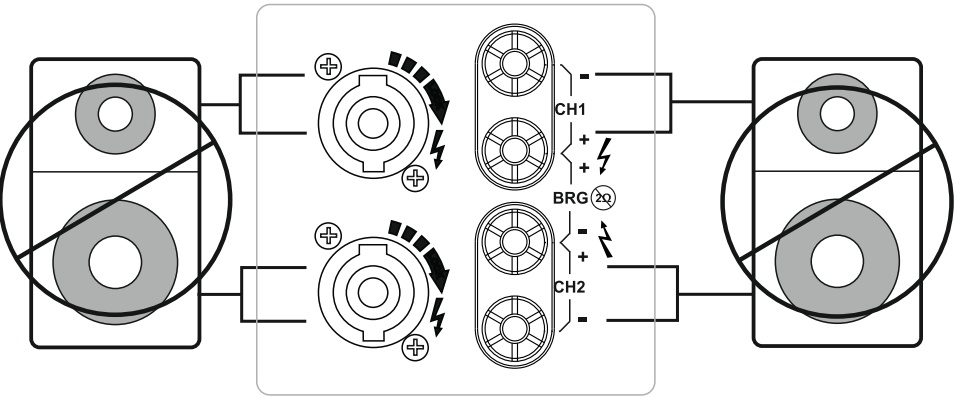
Wiring



Wrong connection of speaker 1



Wrong connection of speaker 2



Don't connect the output terminals of both channels with the same speaker!