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# PSM-300T

(30周年纪念版 | 30th Anniversary Edition)

单声道全平衡胆石混合式直流功率放大器  
Class a mono power amplifier



使用说明书/User's Manual

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## 感谢

感谢您购买声雅音响的 Hi-Fi 产品！

我们相信，对高品位音响产品的不懈追求，是我们的责任，也是您的理想。

为使**PSM-300T(30周年纪念版)单声道全平衡胆石混合式直流功率放大器**更好地发挥它的性能，给你带来更大的乐趣，我们建议您在连接及操作本系统之前，认真阅读本说明书。

### 安全警告



警告:为防止起火或触电事故,请不要让机器暴露在雨中或潮湿环境里。机内有危险的高电压配件,因而不要打开机盖维修时只可委托给合格的维修人员。



危险电压:为减少电击危险,请勿擅自拆卸盖子(或后板)。



请注意:装置内部并无用户自行检修的零部件,需要检修时,请委托经销商或合格的人员。

设备仅适用于热带气候条件下安全使用，最高操作温度为45°C；  
设备仅适用于海拔5000m及以下地区安全使用；  
设备使用器具耦合器作为断接装置。

音频信号输入级由ECC88/6DJ8电子管作差分电压放大,名品晶体管作第二级差分电压放大,末级由24支大功率晶体管组成强大功率输出级,轻易推动低至2欧姆阻抗的大型音箱。

采用独立单声道平衡放大原理结构,有效消除动态串音干扰,令声场定位、分析力和声音能量稳定度等性能指标表现有很大的提高。

电源供应部分由最大功率1500W环形变压器,12万微法音响专用电解电容组成,配合巨大的铝合金散热器;由于大量音响专用材料投入,从而对音箱产生强而有力的驱动及控制作用。

在100W内为甲类输出状态,音色细腻润厚。当超过100W后自动转为甲乙类输出模式,使播放大动态音乐软件时有力拔山河之势。

增加了平衡与不平衡信号输入选择,可连接两个不同音色的前级放大器。

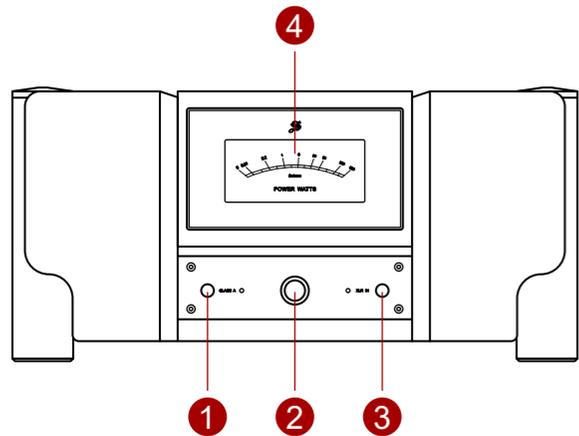
可设定甲类或甲乙类输出状态,既方便音色的调整,也可以选择节约耗电量令机箱热量大幅降低,使聆听不同的音乐内容时选择合适的工作方式。

平衡信号输入端子选用瑞士NEUTRIKP产品,不平衡信号输入端子以及音箱连接端子都选用德国WBT镀金端子产品,内部音频信号连接线采用美国进口金宝品牌高级线材,使音频信号得到更理想的传输。

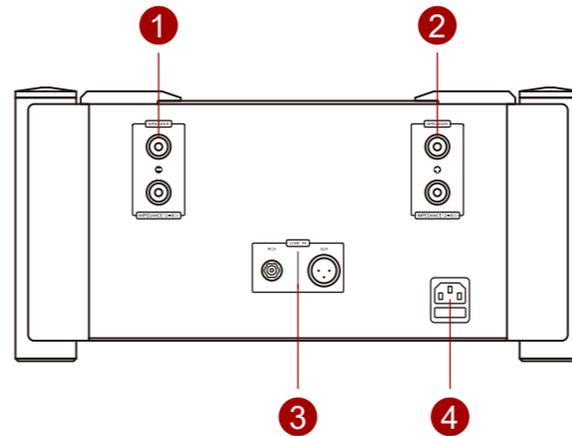
交流电源输入插座选用日本FURUTECH(古河)镀金产品,保险管选用进口产品。

面板设有输出功率指示表,使用户即时观察到机器功率输出数值;极具时尚动感和观赏性。

外观设计以体现产品内涵为主要宗旨,细节丰富考究,每一个细节都是由内到外,由大到小衍生而来,自然精彩而毫无做作。整机大面积采用黑色,并以少量的铝金属本色部件装点其中,不但增强了视觉冲击,从而使黑色产生了前所未有的魅力;稳重大气、整体与细节的关系演绎得非常精彩、美妙、十分耐看,彰显华贵气质。



- 1 甲类工作模式设定开关按钮**  
 此开关是对本机工作模式进行设定；  
 按下开关时机器以CLASS A甲类工作模式进行输出工作(指示灯点亮)；  
 复位时机器以甲乙类工作模式输出工作(指示灯熄灭)。
- 2 电源开关按钮**  
 此开关用于接通或切断整机交流电源。
- 3 音频输入模式设定开关按钮**  
 此开关是对本机音频输入模式进行设定；  
 按下开关时机器以XLR IN(平衡)音频信号输入工作(指示灯点亮)；  
 复位时机器以RCA IN(不平衡)音频信号输入工作(指示灯熄灭)。
- 4 输出功率指示表**  
 使用户即时观察到机器功率输出数值。



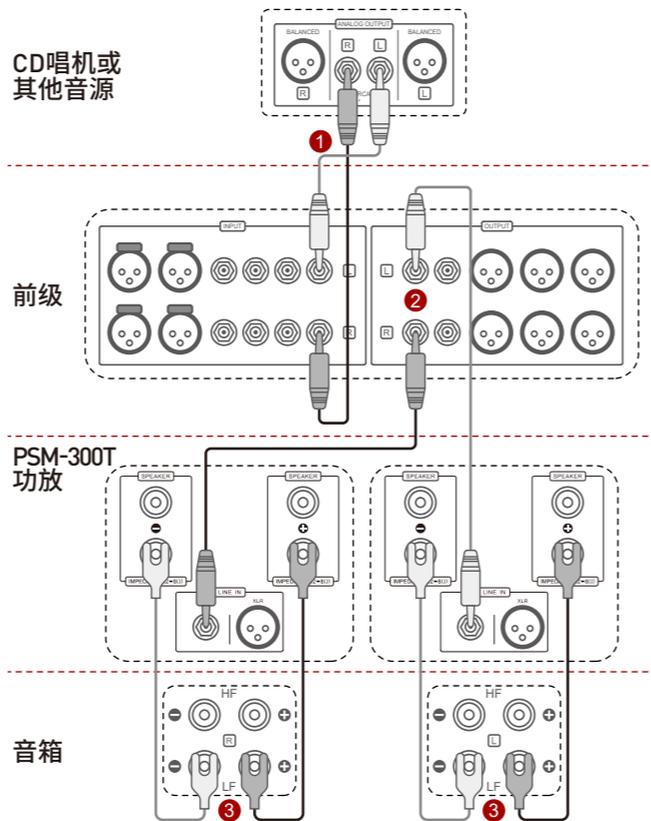
- 1 输出接线柱(负极)**  
 可连接阻抗为4-8Ω的音箱; (白色为负极)。
- 2 输出接线柱(正极)**  
 可连接阻抗为4-8Ω的音箱; (红色为正极)。
- 3 音频信号XLR及RCA单声道输入端子**  
 用于连接前级的XLR(平衡)及RCA(不平衡)声道音频输出端子。
- 4 带交流电源保险丝的电源插座**  
 此电源插座用作连接交流电源, 保险丝在电源插座下部, 更换保险丝时一定要将电源线拔下方可更换。

## 不平衡接线法(RCA)

- 1 信号源(CD唱机或其他音源)的音频输出端子RCA(不平衡)与前级音频输入端子RCA对应连接。  
(前级提供四组不平衡信号输入端子)
- 2 前级音频输出端子RCA(两组可选其中一组)与后级音频输入端子RCA对应连接。
- 3 后级输出接线柱连接左/右声道音箱。以上音箱接线法为普通接法。(也可作双线分音接法)

### 注意:

- 1.红色为正极,白色为负极,音箱与输出接线柱连接时请对应相同极性,否则会影响听音效果。
- 2.面板输入模式按钮处于复位状态(指示灯熄灭)

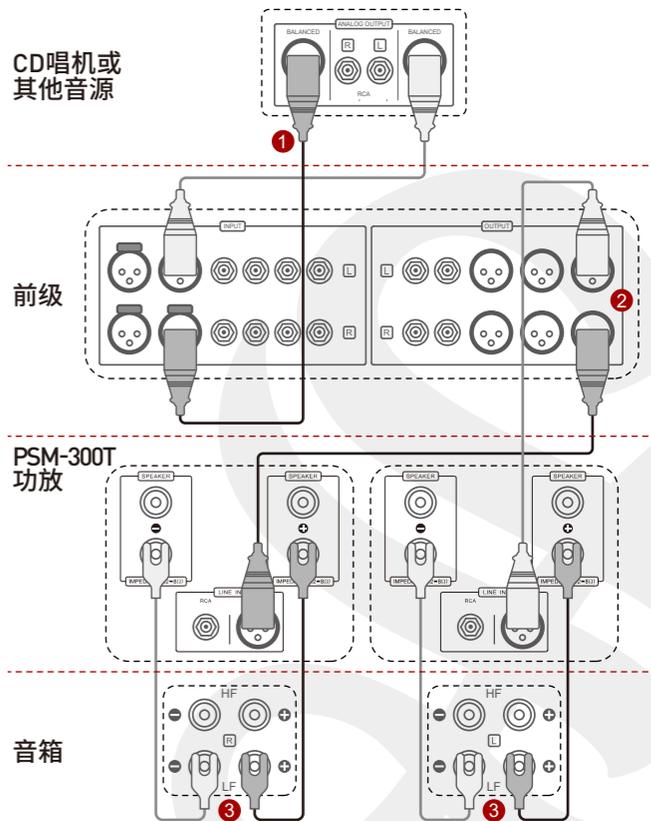


## 平衡接线法(XLR)

- 1 信号源(CD唱机或其他音源)的音频输出端子XLR(平衡)与前级音频输入端子XLR对应连接。
- 2 前级音频输出端子XLR与后级音频输入端子XLR对应连接。
- 3 后级输出接线柱连接左/右声道音箱。以上音箱接线法为普通接法。(也可作双线分音接法)

### 注意:

- 1.红色为正极,白色为负极,音箱与输出接线柱连接时请对应相同极性,否则会影响听音效果。
- 2.面板输入模式按钮处于按下状态(指示灯点亮)

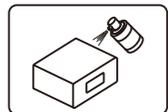




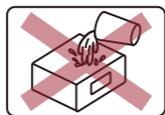
■ 请将本机放置于通风良好以及干燥的地方工作,不要放置在阳光直接照射或靠近热源地方;并注意支承机器的柜台四周要有一定空间,10cm内无任何障碍物;以便机器通风散热。



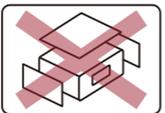
■ 使用电源时请手执插头绝缘部分插入或拔下电源插座,不要直接扯电源线。



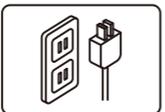
■ 清洁机壳时,请勿使用具有强烈挥发性有机溶剂(如汽油,苯等)洗擦机面机壳,应用柔软干净的布轻擦。



■ 机器上不能放置带液体的容器(如花瓶、水杯、油瓶等),更不可将任何类型的液体洒入机器内,这会造成短路或漏电事故。



■ 不要随便拆开机壳拔弄内部器件,这样会有触电危险。



■ 当您一段长时间不使用本机时请将电源线从插座拔下。

异常现象	原因	解决方法
无 声	<ol style="list-style-type: none"> <li>1. 电源线没接好</li> <li>2. 交流保险管熔断</li> <li>3. 前级音量旋钮在最小位置</li> <li>4. 输入信号线没有接好</li> <li>5. 音源未工作或音源不良</li> <li>6. 音箱连线未接好</li> <li>7. 机器严重过载</li> <li>8. 机内直流保险管熔断</li> <li>9. 后级输入模式开关位置不当</li> </ol>	<ol style="list-style-type: none"> <li>1. 接好电源线</li> <li>2. 请合格维修人员更换保险管</li> <li>3. 将音量调整到适当位置</li> <li>4. 接好输入信号线</li> <li>5. 开启音源或更换其他音源</li> <li>6. 音箱连线未接好</li> <li>7. 关机并检查音箱线是否短接</li> <li>8. 请合格维修人员更换保险管</li> <li>9. 设定对应的工作模式(RCA或XLR)</li> </ol>
有一边 声道无声	<ol style="list-style-type: none"> <li>1. 一边信号输入线未接好</li> <li>2. 一边音箱线未接好</li> </ol>	<ol style="list-style-type: none"> <li>1. 接好信号输入线</li> <li>2. 接好音箱线</li> </ol>
声音伴有很大 交流声(嗡嗡声)	<ol style="list-style-type: none"> <li>1. 信号线接触不良或插得不够深入</li> <li>2. 信号线不良</li> </ol>	<ol style="list-style-type: none"> <li>1. 插紧信号线或用力把插头插入</li> <li>2. 更换信号线</li> </ol>

- |                 |                                  |                    |                   |
|-----------------|----------------------------------|--------------------|-------------------|
| 1. 频率响应 .....   | : 20Hz-20kHz±0.1dB               | 5. 输入灵敏度 .....     | : 1.1V(不平衡)       |
| 2. 额定输出功率 ..... | : 300W(8Ω)、600W(4Ω)<br>1100W(2Ω) | 6. 信噪比 .....       | : 95dB(宽带)        |
| 3. 甲类输出功率 ..... | : 100W(8Ω)                       | 7. 输入阻抗 .....      | : 47KΩ            |
| 4. 谐波失真 .....   | : ≤0.01%(1kHz)                   | 8. 体积(W×H×D) ..... | : 446×216×531(mm) |
|                 |                                  | 9. 重量 .....        | : 36kg            |

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## GRATITUDE

Thank you for purchasing Hi-Fi products of Shengya Audio!

We believe that the unremitting pursuit of high-quality audio products is our responsibility and your ideal.

In order to make **PSM-300T(30th Anniversary Edition)Class a mono power amplifier** better performance and bring you greater pleasure, we recommend that you read this manual carefully before connecting and operating the system.

### SAFETY WARNING



**Warning:** In order to prevent fire or electric shock, please do not expose the machine to rain or humid environment. There are dangerous high-voltage accessories in the machine, so do not open the machine cover and only entrust it to qualified maintenance personnel.

**Dangerous voltage:** In order to reduce the risk of electric shock, please do not remove the cover (or rear panel) without authorization.

**Note:** There are no user-overhauled parts inside the device. When overhauling is required, please entrust the dealer or qualified personnel.

The equipment is only suitable for safe use in tropical climates, with a maximum operating temperature of 45°C;  
 The equipment is only suitable for safe use in areas with an altitude of 5000m and below;  
 The equipment uses an appliance coupler as a disconnect device.

The audio signal input stage uses the ECC803 tube for differential voltage amplification, and famous transistors for second-stage differential voltage amplification. The final stage is composed of 24 high-power transistors to form a 0dB powerful power output stage, which can easily drive floor stand speakers with an impedance as low as 2 ohms.

The independent mono balanced amplification structure is adopted to effectively eliminate the problem of dynamic crosstalk interference, so that the performance indicators such as sound field positioning, analysis power and sound energy stability are greatly improved.

The power supply part is composed of a 1500W toroidal transformer, 120,000 micro-farad audio special electrolytic capacitors, with a huge aluminum heat sink. A large amount of audio special materials gives a strong driving and control effect on the speaker.

Within 100W, it is a Class A output state, and the sound is delicate and thick. When it exceeds 100W, it will automatically switch to Class A and B output mode, making it a powerful force when playing big dynamic music software.

The balanced and unbalanced signal input options connect two preamplifiers with different tones.

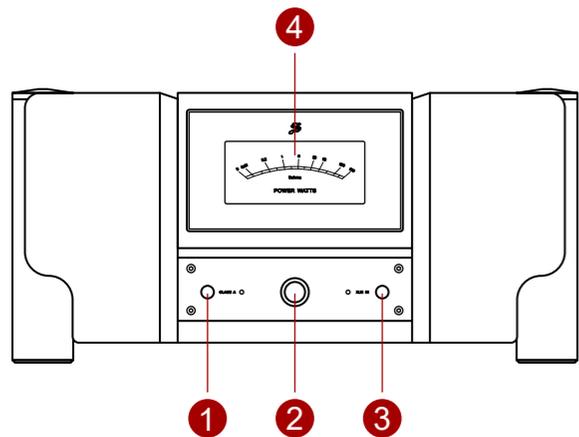
The selection of Class A or Class AB output is not only convenient for adjusting the tone, but also save power consumption to greatly reduce the heat, so that you can choose a suitable working mode when listening to different music contents.

Both the unbalanced signal input terminal and the speaker connection terminal apply the German WBT sockets, and the balanced signal input terminal adopts Swiss Neutrick products; the internal audio signal connection wire apply American Kimber Kable, so that the audio signal can be transmitted more ideally.

The power input socket is Japanese Furutech gold-plated, and the fuse adopts imported products.

The panel is equipped with an output power indicator, which enables users to instantly observe the power output value of the machine; it is very fashionable, dynamic and ornamental.

The main purpose of the appearance design is to reflect the connotation of the product. The details are rich and elegant. Every detail is derived from the inside to the outside and from the big to the small. It is naturally wonderful and unpretentious. The whole machine adopts black in a large area, and is decorated with a small amount of stainless steel gold-plated parts, which not only enhances the visual impact, so that the black has an unprecedented charm; the stability and the relationship between the whole and the details are very wonderful, beautiful, and very attractive. Demonstrate luxurious temperament.



## 1 CLASS A/AB SWITCH

This switch is to set the working mode of the machine;  
When the switch is pressed, the machine performs output work in Class A working mode (the indicator light is on);  
When reset, the machine performs output work in Class AB working mode (the indicator light goes out).

## 2 POWER

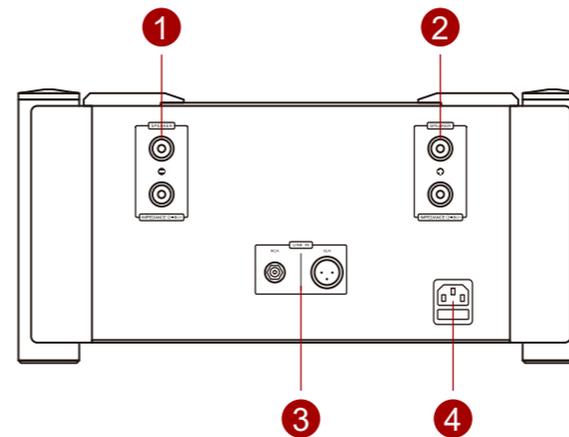
This button is used to turn on or off the AC power supply of the whole machine.

## 3 XLR/RCA

This switch is to set the audio input mode of the machine;  
When the switch is pressed, the machine works in XLR audio signal input (the indicator light is on);  
When reset, the machine works in RCA audio signal input (the indicator light goes out).

## 4 OUTPUT POWER INDICATOR

Allows users to observe the power output value of the machine instantly.



## 1 OUTPUT TERMINAL(NEGATIVE)

Can connect speakers with an impedance of 4-8Ω;(white is negative).

## 2 OUTPUT TERMINAL(POSITIVE)

Can connect speakers with an impedance of 4-8Ω;(red is positive).

## 3 AUDIO SIGNAL XLR AND RCA MONO INPUT TERMINAL

Used to connect the preamplifier XLR and RCA audio output terminals.

## 4 POWER SOCKET WITH AC POWER FUSE

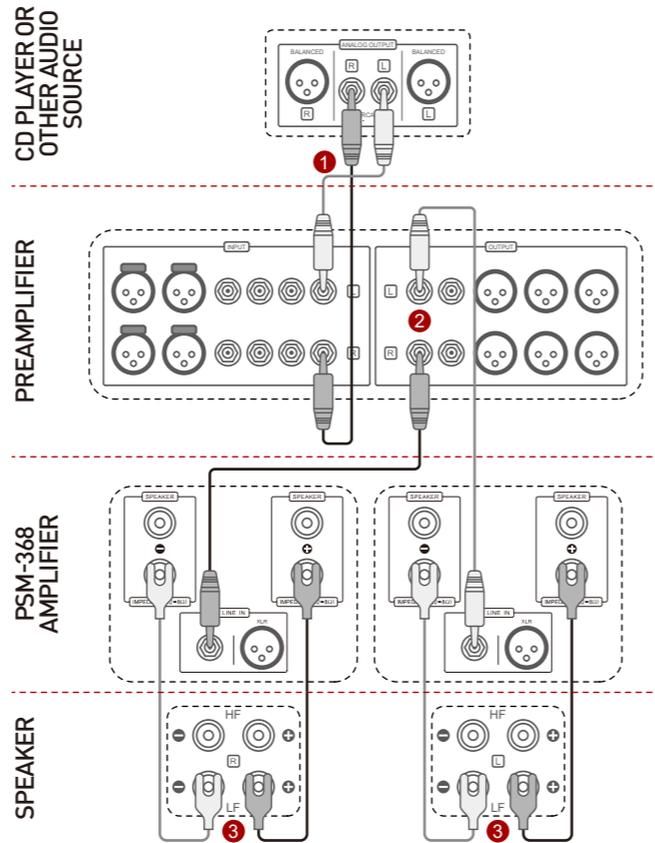
This power socket is used to connect to AC power. The fuse is at the bottom of the power socket. When replacing the fuse, be sure to pull out the power cord to replace it.

## RCA WIRING METHOD

- 1 The RCA audio output terminal of the signal source (CD player or other audio source) is connected to a preamplifier RCA audio input terminal correspondingly. (The preamplifier provides four sets of unbalanced signal input terminals).
- 2 The preamplifier RCA output terminal (one of the two groups can be selected) is connected to the power amplifier RCA input terminal.
- 3 The power amplifier output terminal is connected to the left/right channel speakers. The above speaker wiring method is common connection method. (It can also be used for two-wire crossover connection).

### NOTE:

1. Red is positive and white is negative. When connecting the speaker and the output terminal, please correspond to the same polarity, otherwise it will affect the listening effect.
2. The XLR/RCA input mode button is in the reset state (the indicator light is off).

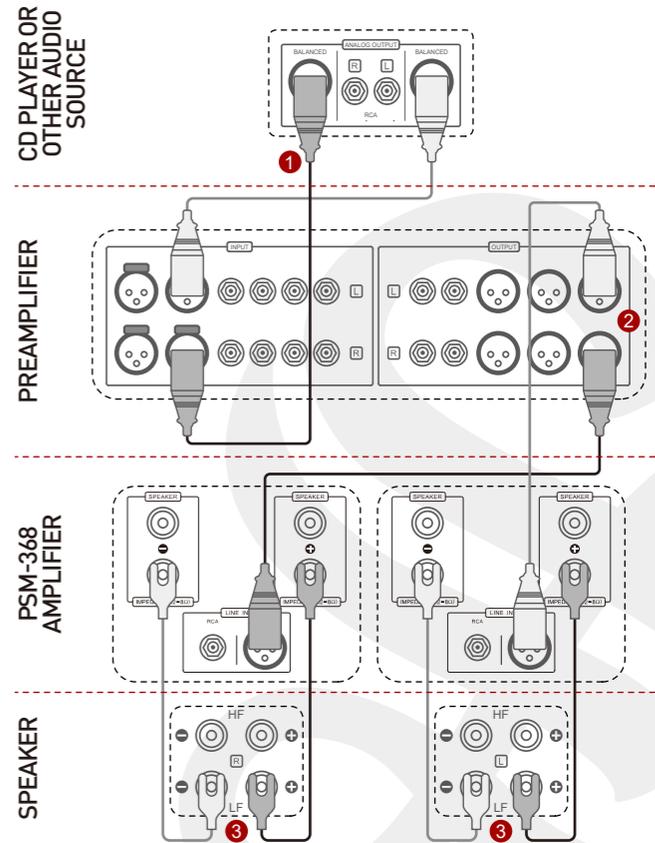


## XLR WIRING METHOD

- 1 The XLR audio output terminal of the signal source (CD player or other audio source) is connected to a preamplifier XLR audio input terminal correspondingly.
- 2 The preamplifier XLR output terminal is connected to the power amplifier XLR input terminal.
- 3 The power amplifier output terminal is connected to the left/right channel speakers. The above speaker wiring method is common connection method. (It can also be used for two-wire crossover connection).

### NOTE:

1. Red is positive and white is negative. When connecting the speaker and the output terminal, please correspond to the same polarity, otherwise it will affect the listening effect.
2. The XLR/RCA input mode button is in the reset state (the indicator light is off).



# PRECAUTIONS



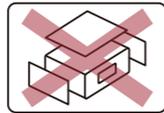
■ Please place the machine in a well-ventilated and dry place for work. Do not place it in direct sunlight or close to a heat source, and pay attention to a certain space around the counter supporting the machine, without any obstacles within 10cm; to allow the machine to ventilate and dissipate heat.



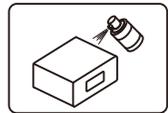
■ Do not place containers with liquids (such as vases, water cups, oil bottles, etc.) on the machine, and do not spill any type of liquid into the machine, which may cause short circuits or electric leakage accidents.



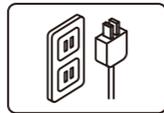
■ When using the power supply, insert or unplug the power socket by holding the insulated part of the plug, and do not pull the power cord directly.



■ Do not disassemble the casing and try to get the internal components, otherwise there will be a risk of electric shock.



■ When cleaning the cabinet, do not use strong volatile organic solvents (such as gasoline, benzene, etc.) to clean the cabinet on the surface of the machine. Use a soft, clean cloth to wipe gently.



■ Please unplug the power cord from the socket when you are not using the machine for a long time.

# FAULT GUIDANCE

ABNORMAL	REASON	SOLUTION
<b>Mute</b>	<ol style="list-style-type: none"> <li>1. The power cord is not connected properly</li> <li>2. AC fuse blown</li> <li>3. The preamplifier volume knob is in the minimum position</li> <li>4. The input signal line is not connected properly</li> <li>5. The sound source is not working or the sound source is bad</li> <li>6. Speaker connection is not connected</li> <li>7. The machine is overloaded</li> <li>8. Internal DC fuse breaker</li> <li>9. Improper position of the power amplifier input mode switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the power cord</li> <li>2. Ask qualified maintenance personnel to replace the fuse</li> <li>3. Adjust the volume to the appropriate position</li> <li>4. Connect the input signal line</li> <li>5. Turn on the audio source or change to another audio source</li> <li>6. Connect the speaker cable</li> <li>7. Replace speakers with 4-8Ω impedance</li> <li>8. Ask qualified maintenance personnel to replace the fuse</li> <li>9. Set the corresponding working mode (RCA or XLR)</li> </ol>
<b>One side channel is voiceless</b>	<ol style="list-style-type: none"> <li>1. One side of the signal line is not connected</li> <li>2. One speaker cable is not connected properly</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the signal line</li> <li>2. Connect the speaker cable</li> </ol>
<b>The sound is accompanied by a loud humming</b>	<ol style="list-style-type: none"> <li>1. The signal line is in poor contact or not inserted deep enough</li> <li>2. Bad signal line</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten the signal cable or force the plug into</li> <li>2. Replace the signal line</li> </ol>

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|------------------------------|----------------------------------|-------------------------------|--------------------|
| 1.Frequency Response .....   | : 20Hz-20kHz±0.1dB               | 5.Input sensitivity .....     | : 1.1V(unbalanced) |
| 2.Output Power .....         | : 300W(8Ω)、600W(4Ω)<br>1100W(2Ω) | 6.Signal To Noise Ratio ..... | : 95dB(wideband)   |
| 3.Class A Output Power ..... | : 100W(8Ω)                       | 7.Input Impedance .....       | : 47KΩ             |
| 4.Harmonic Distortion .....  | : ≤0.01%(1kHz)                   | 8.Dimensions(W×H×D) .....     | : 446×216×531(mm)  |
|                              |                                  | 9.Weight .....                | : 36kg             |

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The company's product maintenance and repair entrust the local distributor to be responsible for contacting and contacting.  
Our company's products pursue continuous improvement and update, product specifications and indicators are subject to change without notice.  
If you have any questions about this manual, please consult the retailer or directly contact our company.  
Implementation standards of this product:GB8898、GB/T10406-93、Q/SHYA01-1997

