Orisun

HiFi Power Amplifier

OA-600H Owner's Manual

Welcome !

we are pleased you have chosen an audiophile masterpiece of the device, and thank you for your trust. with the Orisun OA-600H power amplifier you own an extraordinary hi end component with excellent sound and wide range of functions. in the flowing, we would like to explain the use of your device in a comprehensive way and therefore ask you to take a little time to study this manual in detail.

should you have any questions which we have not been able to answer with this mannual, please contact your dealer or distributor who will be able to configure the unit according to your needs and personal requirements and also give you instructions for daily use .

Unpacking

Care must be taken at all times when handling the amplifier due to the weight and the construction of the product. We recommend a two-person lift wherever appropriate.

Remove the power amplifier from the packing box should be protective materials are installed on the floor, and remove the first on the side of the packaging of parts (power lines and instructions). Open the packaging box before, please sign of packing box to see, carefully open the packaging box, to be careful with the power amplifier with the foam carried out with care to pre paved ground material protection.

Owner Information

In order to get better customer after sale service, please record the following information when purchasing products.

Model Number **OA-600H**

Serial Number _____

Place of Purchase _____

Date of Purchase _____

Dealer Name _____

Dealer Phone _____

Inportant Safety Instructions

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus in or near rain or moisture.

1. Read and keep these instructions for future reference.
2. Do not use this apparatus near water.
3. Clean only with dry cloth.
4. Do not block any ventilation openings. Install according to manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers,stoves or other apparatus (including amplifier) that produce heat.
6. Do not override the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one wider than the other. A grounding type 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.
7. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles and the point where it exits from the apparatus.
8. Only use attachments/accessories specified by the manufacturer.
9. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

10. Unplug this apparatus during lightning storms or when unused for long period of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the 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 operated normally, or has been dropped.
12. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle.

WARNING: SHOCK HAZARD – DO NOT OPEN.
AVIS: RISQUE DE CHOC ELECTRIQUE – NE PAS OUVRIR.

The lightning flash with arrowhead symbol, within an 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 constitude a risk of electric shock to persons.

The exclamation point within an equivalent triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompany the appliance.

Front Panel Features

① **Display Mode Button**
Settings the display mode of the screen

② **Dims the display control button**
" + ": Press the dimmer button repeatedly to toggle through the settings, until the brightest.
" **-** ": Press the dimmer button repeatedly to toggle through the settings, until off.

③ **Amplifier Status Display**
This two-color LED display behind a tinted acrylic panel shows activity of any of each channel on the OA-600H doing amplification duties.

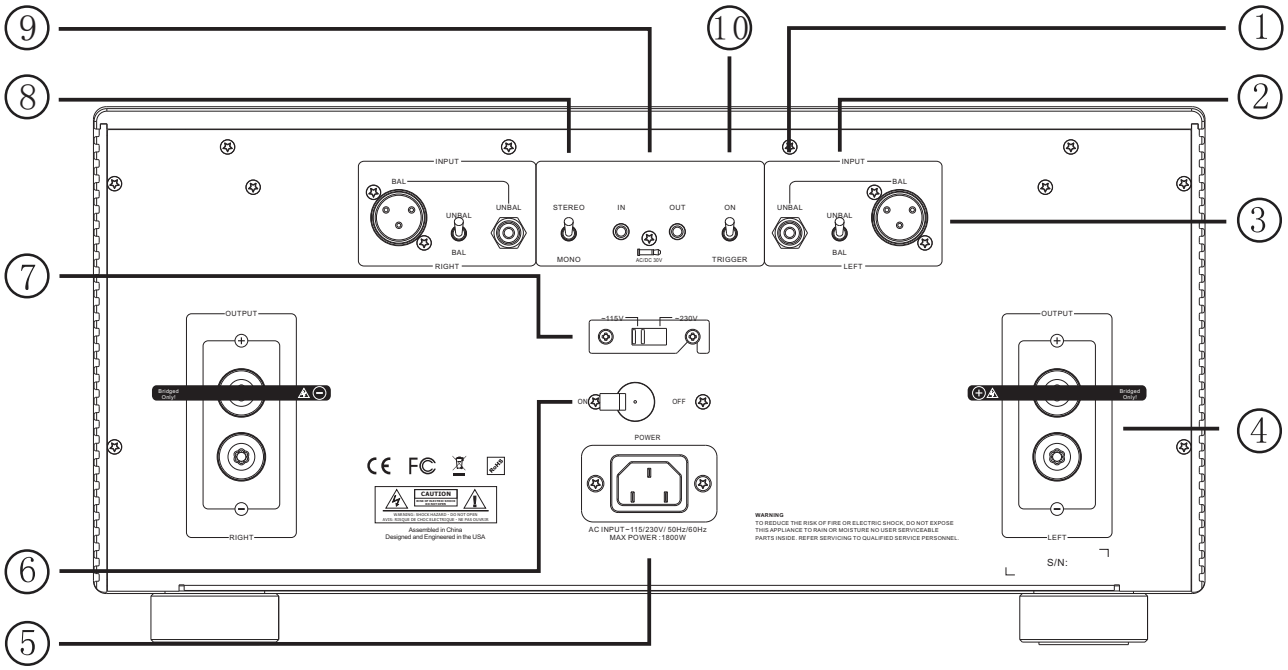
Blue LEDs: power module is installed, on and ready.

Red LEDs: fault condition: overheated, short circuit, DC on outputs, standby mode is active.

*Note - When there is **NO LIGHT** - The power module is not installed, the power module's fuse is blown, the power line is not connected.*

④ **Power/Standby Button**
Turns the unit on or off. you can also use the trigger input to automatically turn on your device. it will turn on when an external source provides 5-30V on the trigger input.

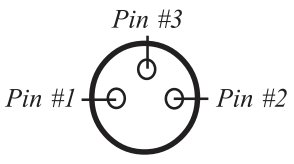
Real Panel Features



① **Unbalanced RCA Inputs**
Connect this unbalanced RCA jack on your preamplifier to provide signal to the amplifier module.

② **Input Selector Switch**
This switch allows you to select how the amplifier input will RCA or XLR.

③ **Balanced XLR Inputs**
Connect this balanced XLR jack on your preamplifier to provide signal to the amplifier module. If you have a choice, use the balanced XLR connections whenever possible. Balanced connections offer superior noise immunity over unbalanced RCA connections.
On the balanced XLR connector, the wiring is as follows:
Pin #1 = Ground
Pin #2 = Signal +
Pin #3 = Signal -



④ **Speaker Output Terminals**
The speaker output terminals for each amplifier channel are located just below the balanced XLR input jack. The top post of each binding post pair is the positive output, and connects to the positive (red) post of your speaker. The bottom post of each pair is negative, and con--nects to the negative (black) post of your speaker. The posts can accept bare wire, spade terminals, and dual or single banana connectors.

Spade connections or banana plugs ensure a simple, solid fit in the terminal whereas bare wire may be awkward when the terminal is screwed down to compress the wire into place. Keep in mind that if you use "dual banana" plugs and "stack" them, you will be creating a parallel connection.

⑤ IEC Line Cord Socket

The device comes with a detachable line cord which connects here. Plug the line cord into an AC wall socket which is correctly configured with the voltage and current supply specified for the device Do not plug this line cord into a power strip, it must plug directly into a wall socket.

⑥ Power Switch

When the switch is on the "ON" position, the idle mode is activated.And this mode can be turned off by turning the switch to the "OFF" position.

⑦ AC Voltage Selector

Before connecting , insure that the voltage selector is set for the correct voltage for your region.

⑧ Stereo / Mono Switch

These switches allow the two Amps to be paired to be used in stereo or combined in mono.

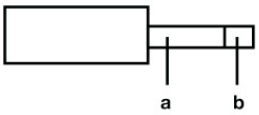
Stereo Amp L and Amp R with independent inputs and outputs.

Mono Amp L and Amp R inputs are summed, so use one Input, either Amp L or Amp R Balanced or Unbalanced.

⑨ External Trigger Connection

This external trigger connection allows the amplifier to be turned ON and OFF by a control device such as a source unit or preamplifier. It can also be used with most home automation controllers. The trigger requires a 5~30V AC/DC trigger. This is the preferred method of activating the device.

The device supply TRIGGER link out to another amplifier (Use the 1/8" mono jack connect).



a) Ground (GND)
b) Trigger signal (+5V)

⑩ Turn On Selector Switch

This switch allows you to select how the amplifier will turn on and off.

In the **ON** (Up) position, the switch on the front of the amplifier is the method you will use to power up and power down the amplifier. Please note that in this configuration, you must manually power up and power down the amplifier each time you use it or it will have unnecessary standby current draw.

In the **TRIGGER** (Down) position, the amplifier's ON and OFF functions are controlled by a trigger from a source or preamplifier device. The trigger accepts 5~30V AC/DC and will turn the ampli--fier on whenever a trigger is present. When there is no trigger, the amplifier goes into standby mode. This is the preferred method for activating the device.

Specifications

Rated Power Output:

8 Ohms:	350W RMS
4 Ohms:	600W RMS
BTL 8 Ohms:	1000W RMS

Frequency Response:

+/- 0.5 dB:	10 Hz-20 kHz
+/- 3 dB:	5 Hz-30 kHz

Signal to Noise Ratio
(+A-weighted): 118 dB

Distortion (THD):
(20Hz-20kHz): <0.03%

Damping Factor:
(into 8 Ohms): >400

Gain:

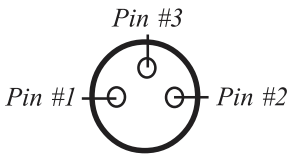
RCA:	1.4V(29dB)
XLR:	1.4V(29dB)

Input Impedance: >47K Ohms

External Trigger: 5~30V AC/DC

DC Offset: Less than 5 mv
Servo controlled

XLR Inputs



Pin #1 = Ground
Pin #2 = Positive
Pin #3 = Negative

Power Requirements
230VAC, 50Hz, 1200W
115VAC, 60Hz, 1200W

Power Consumption
(Standby) 0.5 Watts

Dimensions
435 mm W
210 mm H (20mm including feet)
470 mm D (29mm including speaker connections)

Net Weight 33.0 KG

Trouble Shooting Guide

The device is the product of careful design and construction, with one year of free warranty service. Most problems that occur can usually be solved by checking your setup or making sure that the audio and video components connected to the amplifier are on and fully operational.
The following information will help you deal with common setup problems you may experience during normal use of your unit. If problems persist, contact your Dealer for help.

Trouble Shooting

No audio output	• Speaker cables may have come undone. Turn off your system and check the cables, and tighten the amplifier and speaker binding posts. • Damaged audio cable. • The preamplifier volume level is low for the channels concerned. Recheck the preamplifier calibration procedure. • Amplifier is in standby mode, and needs to be turned on "BLUE LED". • The ON/TRIGGER switch on the device might be in the wrong position. • A fuse on the unit may have blown or the individual fuse within the power module may have blown.
Hum or buzzing sound is heard	• If your preamplifier has XLR balanced outputs, use them because they offer greater immunity to noise fields. • Remember to turn off all components in your system, including the amplifier, before disconnecting or connecting any cables during troubleshooting. • Disconnect all cables which come from outside the room, and check if the hum goes away. This includes such connections as cable TV, satellite, or roof top antennas. • Try moving the speaker cables away from any power cords. Try just one speaker, connecting it to each amplifier channel and see if one channel is bad.
Amplifier will not turn on	• The amplifier must be plugged into a live outlet. • The power switch on the rear panel must be on. • The power mode switch may be set to the wrong mode for your system.