
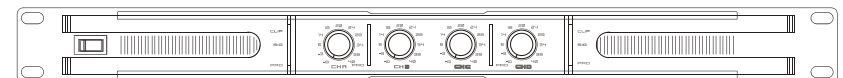
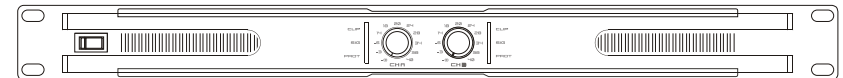


SEIKAKU TECHNICAL GROUP LIMITED

客	戶						
料	號	NF05857					
品	名	說明書-英文					
規	格	AH SERIES(兩無)_V1.0					
公司機種(客戶機種)成品料號		AH SERIES					
重 量/ 基 數		0.07KG/1					
材 質		NH00231 1:2					
紙張展開性質		<input type="checkbox"/> A3 <input checked="" type="checkbox"/> A4 <input type="checkbox"/> A5 <input type="checkbox"/> 其它				紙張展開數量 3PCS	
核 准		審 核		校 稿		製 稿	
							
產品文件編號:							
陽片數量: 6 張							
公差±3mm							
依衍生SH-202207003出圖							

SWITCHING POWER PROFESSIONAL AMPLIFIER

User's Manual



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IMPORTANT!

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

TECHNICAL SPECIFICATIONS

Output Power (100V line)	one channel drive	150W	150W*2	300W	300W*2	480W	480W*2
	all channel drive	135W*2	135W*4	270W*2	270W*4	400W*2	400W*4
Output Power (70V line)	one channel drive	150W	150W*2	300W	300W*2	480W	480W*2
	all channel drive	135W*2	135W*4	270W*2	270W*4	400W*2	400W*4
Input sensitivity	0.9-1.1V (0+/-1dBV)						
Input Impedance	20k Ω (balanced) 10k Ω (unbalanced)						
Frequency response	100 Hz - 15 kHz						
Voltage gain (100V)	40 dB						
THD+N	<0.1%						
S/N rate	>95 dB						
Crosstalk	>70dB						
Damping factor	>200						
Power output circuitry	Switching power, Class-D						
Power supply	AC 110-240V, 50/60 Hz						
Protections	Short circuit, open circuit, thermal, ultrasonic and RF						
Connectors	INPUT & OUTPUT: Euroblock						
Controls	Front: AC switch, Input level control for each channel Rear: 70V/100V selector						
Indicators	SIGNAL: green LED CLIP: red LED POWER: green LED PROTECTION: red LED PRIOR:green/red LED						
Dimensions (WxHxD)	483x44x360 (mm)						
Weight	4.7 kg	5.4 kg	5.1 kg	6.2 kg	5.1 kg	6.3 kg	

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.



Protective grounding terminal.



Alternating current /voltage.



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 manufacturer'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**

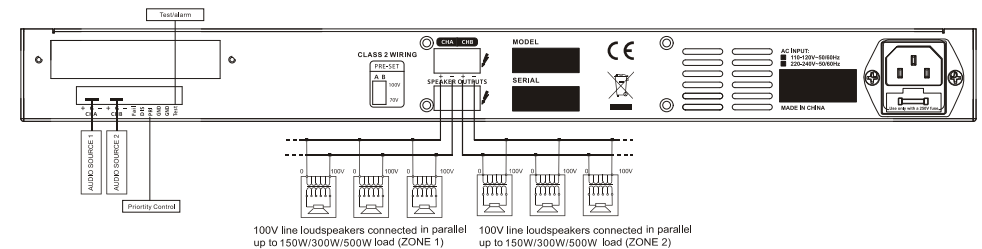
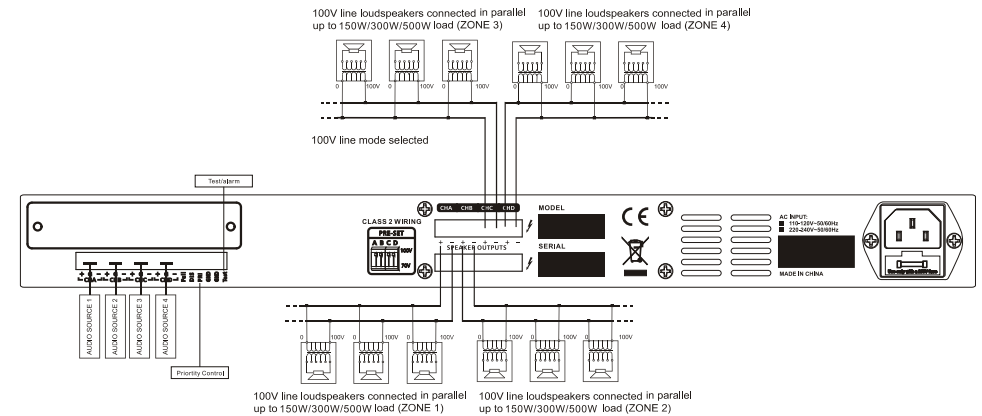
Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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.

APPLICATIONS

This is a connection example. Thanks to its 4-channel/2-channel design, it is possible to separate 4 or 2 zones with different audio sources or to use the same audio on all zones.



REAR PANEL

③ Euroblock Output

Connect the amplifier to your speakers using these Euroblock.

④ Operation mode switch

Select the operation mode (70V or 100V) on each channel moving the dip-switches to the desired position.

⑤ Exhaust Vents

Air is drawn from front grilles, flowing 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 vents areas free of foreign materials.

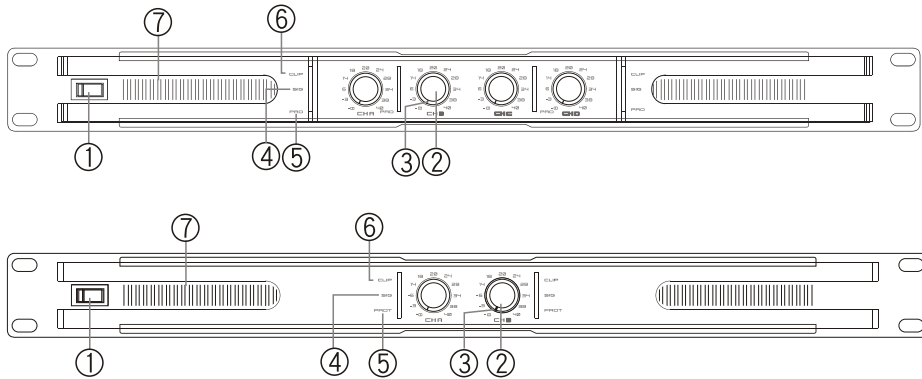
INTRODUCTION

switching power professional amplifier is a class-D installation amplifier. It is suitable for both 70/100V line installations (selectable through dip-switches). Each channel has its own volume control and LED indicators (signal, clip and protection). The input and output connections are made through euroblocks. Its 1HU rack 19" size is very appropriate for many types of installations, taking advantage of its multichannel design.

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
- *Euroblock input and output
- *front mounted gain controls for easy access
- *Signal, Clip protect, and Power LED indicators to monitor performance.
- *Amplifier Disable/Prior/Failure Status
- *2-channel or 4-channel installation amplifier.
- *70/100V line operation.
- *Power output (70/100V): 2X150W/4X150W/2X300W/4X300W/2X500W/4X500W
- *1 HU rack 19" size.
- *Switching power, class-D amplifier.

FRONT PANEL



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 illuminate; If the LED turns red, it means the unit is in heat protection without sound 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

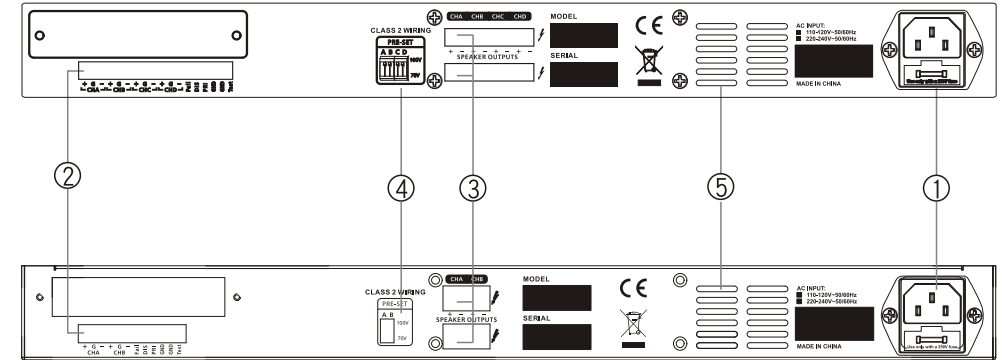
This red LED lights up when the input signal is too strong. it is time to reduce input level until clip LED turn off.

⑦ Air Intake Vents

Switching power professional amplifier 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.

REAR PANEL



① AC Input

Use it to connect your switching power professional amplifier to the supplied AC cord.

② Euroblock input

CH A +:CHA balanced signal input+ or unbalanced signal input

CH A G:CHA signal GND

CH A - :CHA balanced signal input- or unbalanced signal not connect

CH B , CH C and CH D are the same

Fail:Failure Status output:

Failure Status with +5V high level;

disabled/protection/inactive are all with output low level

DIS: Amplifier disabled ,input control PIN

While Amplifier is operating disabled with +5V high level, linked to GND, the amplifier will

be shutdown and with all protection LEDs lighting, at this moment failure status from+5V

high level(normal state) turn into low level (amplifier disabled or not connected)

Using this amplifier disabled function and than connect speaker output, and amplifier start again after finishing connection

PRI: Input Priority Control PIN

When PRI connect to GND directly, TEST input has priority , at this moment VR RED LEDs lighting

GND: signal GND and control GND

TEST: Input Priority test/alarm signal

When PRI connect to GND directly, Test/alarm signal will reach the top priority level.