

SOUNDCHOICE
PROAUDIO

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4 Channel Power Amplifier

MODEL:

CA4120

CA4240

CA4360

CA4480

Warning: Before attempting to connect, operate or adjust this Amplifier, please read these instructions completely and carefully and save this Manual

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions - All the safety and operating instructions should be read before this product is operated.
2. Keep these instructions - The safety and operating instructions should be retained for future reference.
3. Heed all warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions - All operating and use instructions should be followed.
5. Do not use this apparatus near water - The appliance should not be used near water or moisture - for example, in a wet basement or near a swimming pool, and the like.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. 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.
15. Please keep the unit in a good ventilation environment.
 16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall not be placed on apparatus.
 17. **WARNING:** The mains plug or appliance inlet is used as disconnect device, the disconnect device shall remain readily operable.
 18. **Power Sources** – This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.
 19. **Safety Check** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
 20. Don't touch conductive parts of output terminals to prevent hazardous electrical shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.
 21. This equipment is for commercial & professional use only.
 22. This product is in compliance with EU WEEE regulations. Disposal of end of life product should not be treated as municipal waste. Please refer to your local regulations for instructions on proper disposal of this product.
 23. To prevent hazardous electrical shock, do not touch the conductive parts of the output terminals. The external wiring connected to the terminals requires installation by an qualified technician or the use of ready made leads or cords.
 24. Please locate the apparatus at places nearby power socket for quick power disconnection in emergency.



Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.



This lightning flash is intended to alert the user to the presence of non-insulated "dangerous voltage" on the output terminals that may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral 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 constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

CAUTION: To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

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Introduction

Welcome

Congratulation and thank you for the purchasing CA4 series 4 channel constant voltage power amplifier.

Unpacking and Installation

Although it is neither complicated to install nor difficult to operate, a few minutes of your time is required to read this manual for a properly wired installation and to become familiar with its many features and how to use them. Please take a great care in unpacking your amplifier and do not discard the carton and other packing materials. They may be needed when moving or required if it becomes necessary to return for service. Never place the unit near radiators, in front of heating vents, excessive humid or dusty locations to avoid damage, to get years of quality use.

Connect your unit with the system components according to the description on the following pages.

Features

•Controls

- Front : Power on/off switch.
- Rear : 4 output level controls.
4 HPF(180 Hz) on/off switches.

•Connectors

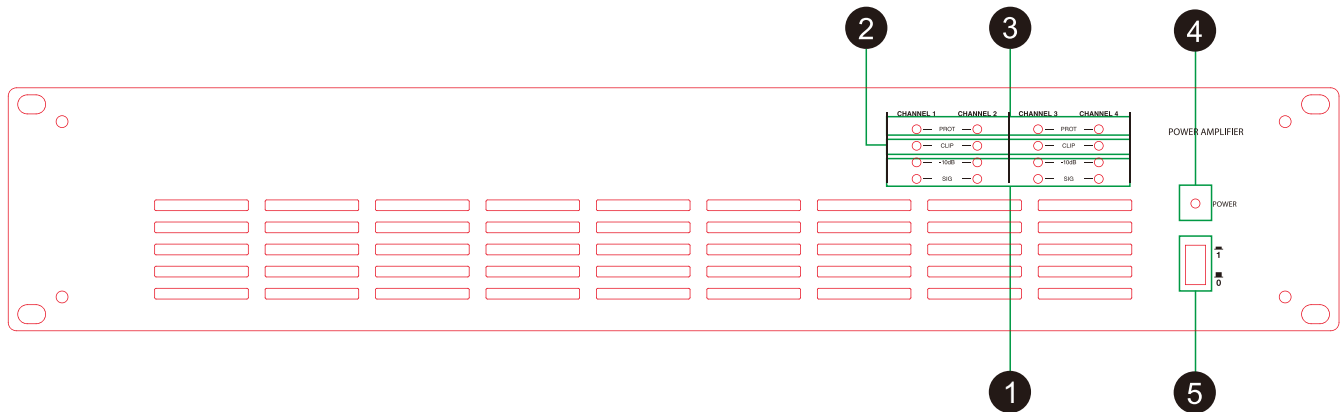
- 4 CH balanced input with euro block.
- 4 CH constant voltage output with euro block .

•Indicators:

- Power and SIG,-10dB, CLIP protect for each output channel.

Front Panel Controls

FRONT PANEL



1. OUTPUT LEVEL METER

These indicators show current output level.

2. CLIP INDICATORS

These indicators warn against overload short on the each of the output channels. We recommend for users to adjust the VOLUME control when CLIP indicators are flickering for best performance.

3. PROTECT INDICATORS

These indicators show amplifiers protected due to over current or over heat.

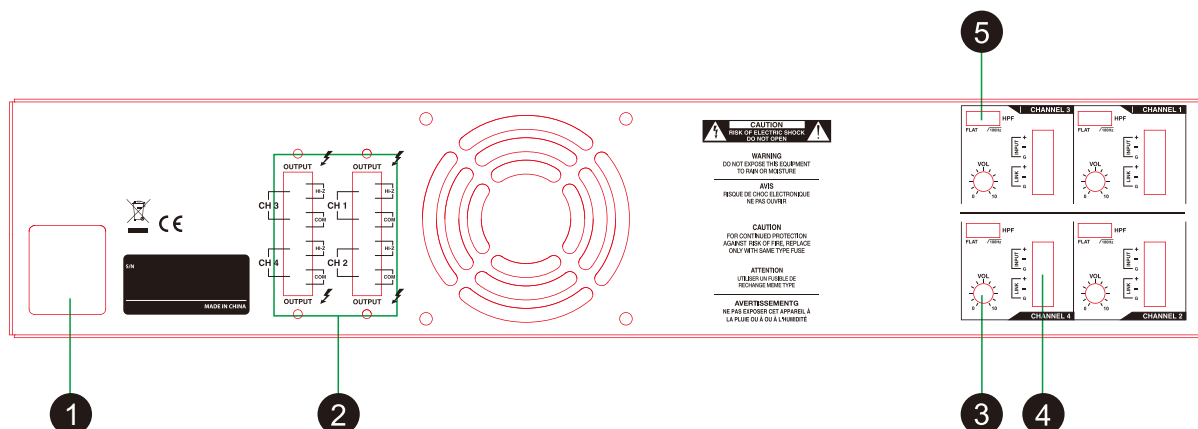
4. POWER INDICATOR

This indicator lights when power switch is turned on.

5. POWER SWITCH

This button is the power on/off switch.

Rear Panel Controls



1. AC POWER INPUT CONNECTOR

A correct capacity fuse and power cable should be applied. Please make sure the value of fuse before replacing.

2. AMPLIFIER OUTPUTS

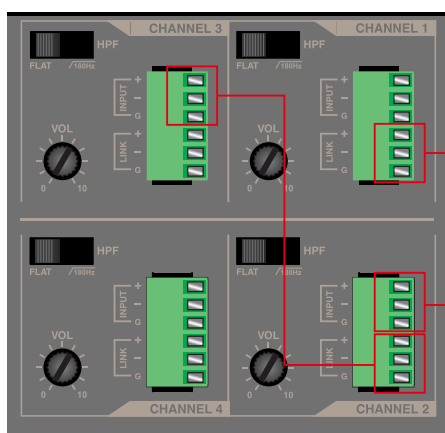
These amplifier output blocks provide 100V constant voltage output for commercial and industrial use.

3. VOLUME CONTROLS

These controls adjust output levels.

4. SIGNAL INPUTS

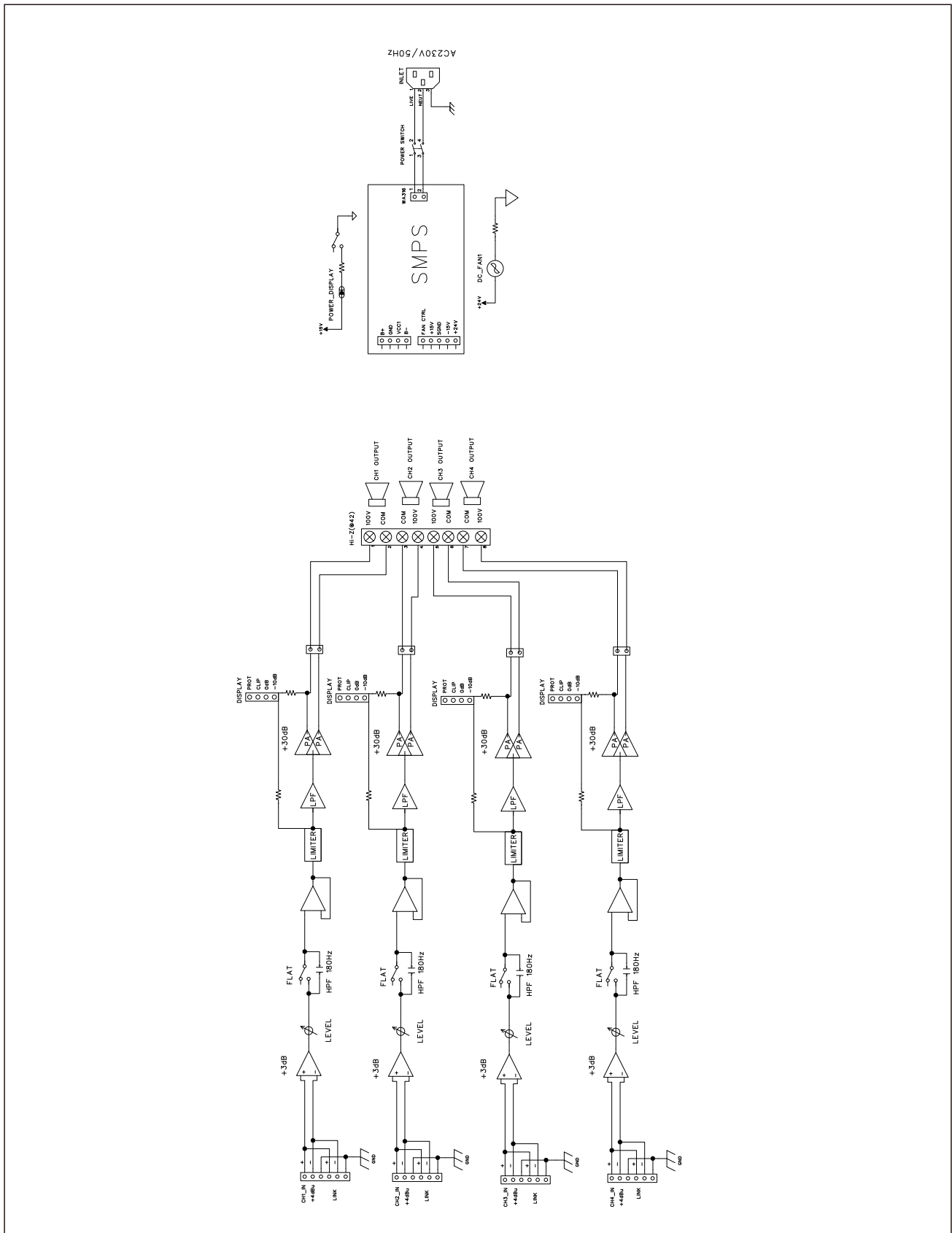
This amplifier provides euro block terminals for signal inputs. The channels consist of balanced line and link output. These link outputs allow to cascade each channel.



5. HPF SWITCH

These switches toggle between flat and 180 Hz high pass filter for each input signal. The filters can be used depending on the kind of speakers or environment of installation.

Block Diagram



Specifications

Model Name		CA4120	CA4240	CA4360	CA4480
Rated Output Power		120W X 4CH	240W X 4CH	360W X 4CH	480W X 4CH
Output / Impedance		100V (83 Ω)	100V (42 Ω)	100V (27 Ω)	100V (21 Ω)
Input sensitivity /Impedance	Input	0dB/20K Ω Balanced			
	link	0dB/20K Ω Balanced			
Frequency Response		50Hz - 15kHz			
T.H.D		< 0.1%			
Crosstalk		>70 dB			
S/N Ratio		>90 dB			
Power Source		AC 230 V, 50/60Hz			
Weight (Net)		6.3 kg	6.5 kg	6.7 kg	6.9 kg
Dimensions (W x H x D)		483x88x380mm			

*Specifications and design subject to change without notice for improvements.