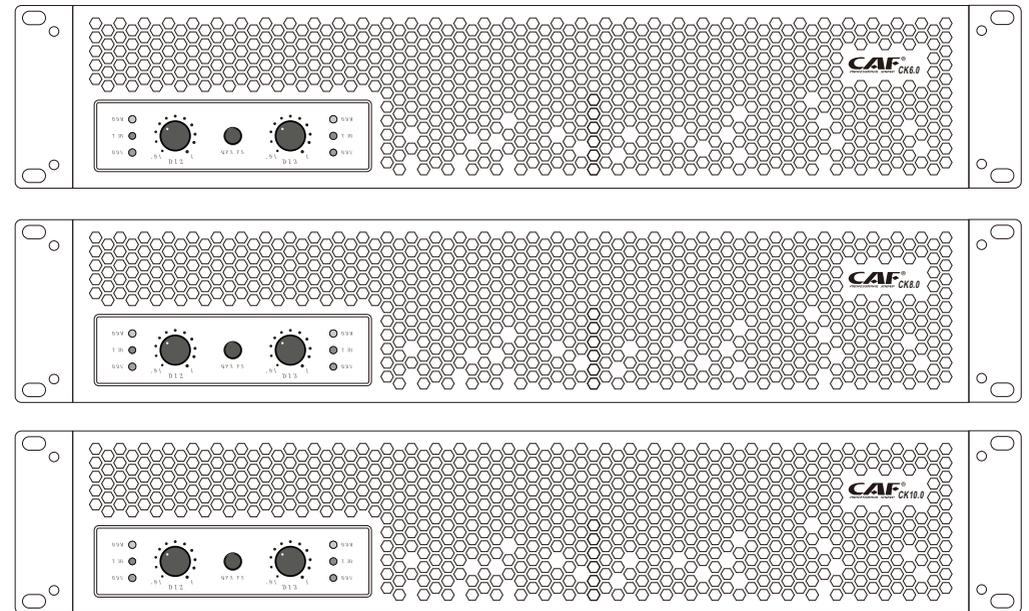




CK Series Power Amplifier  
CK 功率放大器系列

User Manual/用户手册



**CK6.0/CK8.0/CK10.0**  
**PROFESSIONAL POWER AMPLIFIER**

# Important Safety Instructions

- 1- Read these instructions.
- 2- Keep these instructions.
- 3- Heed all warnings.
- 4- Follow all instructions.
- 5- **WARNING:** To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not use this apparatus near water.
- 6- Clean only with a 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- The appliance coupler is the AC mains disconnect and should remain readily operable after installation.
- 10- Do not defeat the safety purpose of the grounding-type plug. A grounding plug has two blades and a grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet. This apparatus should be connected to a receptacle with a protective earthing (or ground) connection.
- 11- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 12- Unplug the apparatus during lightning storms or when unused for long periods of time.
- 13- 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



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this manual.



The lightning flash with arrowhead symbol within an 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 to humans.



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.**



**WARNING:** To prevent fire or electric shock, do not expose this equipment to rain or moisture.

# Parameter table

Model	CK6.0	CK8.0	CK10.0
<b>Output Power</b> (The power output at 20Hz-50Hz in the case of 4Ω/20W/8Ω)			
8ΩDual channel driver*	600W	800W	1000W
4ΩDual channel driver*	820W	1100W	1380W
8ΩChannel bridge driver*	N/A	N/A	N/A
<b>Other parameters</b>			
Frequency response	20Hz-20kHz, +/-0.5dB		
THD+N	< 0.08%(-3dB Power 8Ω/1KHz)		
S/N rate	>90dB		
Damping factor	>300(20-500Hz/8Ω)		
Input sensitivity	0.775V/1.4V		
Input impedance (balance / imbalance)	20kΩ/10kΩ		
Amplification type	2H		
Protect	Boot soft start/short circuit/DC protection/Over temperature protection/Limiting/Switch mute		
Cooling	Front to back air blow		
<b>Rear panel interface</b>			
Input connector	XLR 3 pin		
Output connector	4-POLE Speakon®		
Input mode switch	Stereo/Parallel		
AC Mains Connection	IEC male connector		
Output Mode Switch	KTV/Normal		
Sensitivity Switch	0.775V/1.4V		
<b>Panel function</b>			
Indicator light	Power Indicator/Fault Indicator/Clip(peak) Indicator/Signal Indicator		
Gain controller	21 Step gain controller		
Power switch	AC control switch		
<b>Size / weight</b>			
Product dimensions	483x88x335mm/The chassis is wide inside440mm		
Packing dimensions	580x160x520mm		
Net weight	12.4Kg	13Kg	15.6Kg
Transport weight	14.4Kg	15Kg	18Kg

# TROUBLESHOOTING

## NO POWER, NO LIGHTS, NO FAN

Confirm that the AC cord is fully seated and connected to a live outlet. Check the AC source by trying another device such as a lamp. Check the FUSE on the back of the amplifier by pushing in the button. If the fuse trips off quickly, the amplifier needs servicing.

## NO SOUND, WITH BLUE LED ONLY, NO GREEN OR RED LED

Confirm that the Gain controls are turned up. Confirm that the input cables are correctly installed at both ends. Confirm that the source is active. If necessary, try another source, or connect another amplifier to the existing source.

## NO SOUND, BUT THE SIG LED IS RESPONDING

The green Sig LED indicates the amp is producing a signal, so sound should be heard if the speaker is connected. Check the speaker connections at both ends, and try a different speaker.

## NO SOUND, ACL LED ON

The amp mutes briefly when turned on and off to prevent thumps. If the amp overheats severely, it will mute until it cools off. The fan will be running at full speed, and sound should resume in less than a minute. If the amp feels hot and the fan is not running, it needs to be serviced.

## AMPLIFIER SOUNDS DISTORTED.

If the red ACL LED is flashing, the amplifier is being played beyond its normal rated power. protection circuitry will reduce volume some what to prevent severe overdrive, but if the input sig is further increased, the limiter can be overridden, with increased distortion.

If the speakers or speaker cables are shorted or defective, the amplifier may distort at lower-than-normal levels, with increased flashing of the red ACL LED. This should be checked by trying an alternate speaker and cable.

If too many speakers are connected to each channel (impedance below 4 ohms), the amp will overload more easily and will probably run hot.

If the sound is distorted or garbled without flashing the red ACL LED, the distortion is not occurring inside the amplifier. Either the speaker is bad or the input signal is distorted.

- Confirm that the speaker is OK by trying a different unit.
- Input overload can occur if the amplifier Gain controls are set too low, and the input source is overdriven to compensate. Reduce the source volume until the distortion clears up, and increase amp Gain to reach the desired level. It is generally desirable to keep the amp gains at or near their full, clockwise, position.
- Check all input connections. Do not plug two different sources into the same channel. Use a mixer to blend sources.

## BACKGROUND HUM

Balanced XLR are better for long runs. Hum can be a problem when connecting to TV-cable rigs, since the TV cable often creates a ground conflict. Request or install a TVcable isolator to reduce this problem. Hum can also occur earlier in the signal chain, depending on the types of connections. It often helps to plug everything into the same AC strip, if the total power consumption is not excessive. As a last resort, mild hum can sometimes be reduced by lowering the amp gain, and increasing the source gain to compensate, but you must ensure that the source can deliver the extra volume without overload distortion. If this does not reduce hum, it is coming from the source

## AMPLIFIER NEEDS SERVICING

The following conditions indicate possible unsafe conditions that require service before using. If observed, unplug the AC cord from the wall and when safe, remove the amp for servicing.

- If the amplifier emits smoke or burning smells
- If the case is severely dented or deformed
- If the amplifier is soaked with any fluid
- If internal parts sound loose
- If the AC breaker trips when power is applied
- If the amplifier is dropped, carefully inspect for damage or loose parts before attempting to use.

# CK Series Power Amplifiers

## WELCOME

Thank you for purchasing a WH Audio amplifier. The CK Series is the latest in a long line of hard-working, low cost amplifiers, designed to produce the best possible results for a wide range of users. In most cases, you can plug and play with no surprises, but for best results, we recommend you review the enclosed user guide.

## UNPACKING

Confirm that the amplifier has no visible shipping damage. Confirm that amplifier has the correct AC cord and voltage rating for your region (See rear panel, Serial Number plate). It is best to keep the carton in case the amplifier needs to be returned, at least until it has been tested.

## SUPPORT AND SERVICE

CAF Audio Products maintains a world-wide network of distributors and service centers. These local agencies will be able to answer your questions and take care of any problems.

## IMPORTANT SAFETY PRECAUTIONS

CAF products are designed for safe operation, and have been certified by recognized product safety agencies to meet all normal standards for this type of product. However, dangerous voltages and power levels exist within the covers of this amplifier. The user is requested to study the precautions in this manual. If the product has been dropped, dented, soaked, or appears to have loose parts inside, the risk of shock is increased. Unplug the AC cord, and take the product to qualified service personnel for inspection and repairs.

## FEATURES

The unique POWER+ technology, and other products in the same conditions, with the largest and most real-world headroom optimization for loudspeaker system;

Power level and entertainment, performance is the most commonly used in the industry to match the speaker;

Through the integration of a single modular design, the power supply and amplifier circuit integration into a piece of board, and with the new design of the area, The short path, the short air path and the wave type heat radiator structure can avoid the fault caused by the connection line between lines, The heat radiation efficiency of the whole machine is improved, the weight of the whole machine is reduced, the volume of the product is reduced, and the lower product is realized for transportation and installation.

The full range of products are designed with the transistor directly attached to the radiator, can more effectively reduce the temperature of the power tube, improve the stability of the product.

XLR input and link Connectors are used.

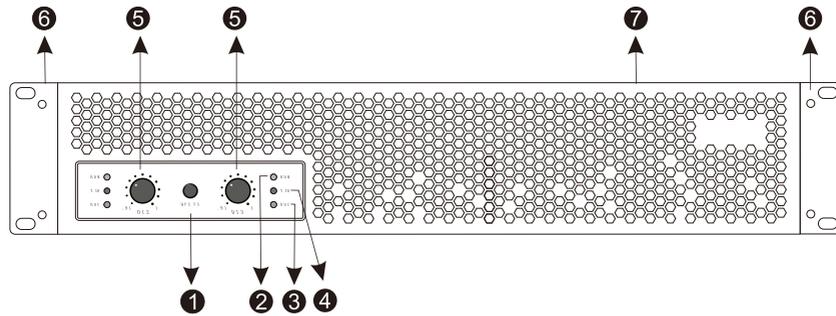
Output using the Speakon NL4 and the binding posts .

Dual input and parallel modes.

Wind cooling system from front to rear.

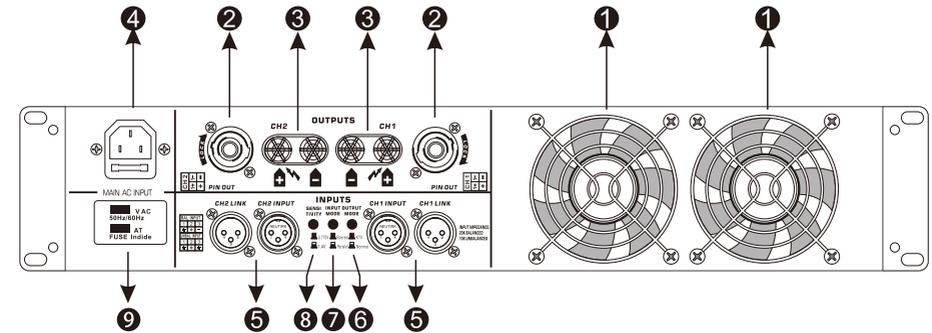
The ACL clipping protection and indication circuit are used to ensure the maximum dynamic range of the signal, DC protection, over temperature protection, infrasonic protection, and ensure the stability of products and effects.

## FRONT PANEL FEATURES



- ① **Power SWITCH**  
Push-on,push-off
- ② **ACL LED**  
Red LED, one per channel, flashes when signal is audibly distorting.
- ③ **ACT LED**  
Blue LED illuminates when amplifier is on.
- ④ **SIG Presence LED(SIG)**  
Green LED, one per channel, flashes when input signal exceeds -35dB.
- ⑤ **GAIN CONTROLS, CH1, CH2**  
The markings show attenuation in dB. For normal use, keep the control in the upper half of its range. If set below half, the source may overload before the amplifier reaches full power.
- ⑥ **RACK MOUNTING**  
Fits standard 19-inch rack, 2RU. Accepts #10 or 6 mm screws, as determined by the rack rails. Add rear support to prevent damage in portable rigs.
- ⑦ **COOLING VENTS**  
The internal fan moves air through the chassis to reduce temperature rise. Keep vents clear. The fan speeds up in response to heavy use.

## REAR PANEL FEATURES



- ① **COOLING VENTS**  
The internal fan moves air through the chassis to reduce temperature rise. Keep vents clear. The fan speeds up in response to heavy use.  
Note: CK4.0 only retains the right side air outlet.
- ② **SPEAKON CABLES**  
Insert and turn until the connector clicks. Use the thumb latch or locking ring to release the plug.
- ③ **SPEAKER CONNECTIONS**  
BINDING POSTS Accepts banana plugs . Bare wires or terminals may be inserted into the side holes.
- ④ **AC INLET**
- ⑤ **BALANCED XLR INPUTS**  
Pin 2 Positive, Pin 3 Negative, Pin 1 Shield (Ground).
- ⑥ **Output mode switch - output mode**  
KTV mode: for karaoke design, singing more relaxed;  
Normal mode: for sound reinforcement application design, the pursuit of restoration, make the sound more natural;
- ⑦ **INPUT MODE**  
STEREO MODE:  
Each channel operates independently, as usual.  
PARALLEL MODE:  
The inputs of both channels are directly connected together, but all controls and speaker connections work as usual. Never connect the red output terminals directly together
- ⑧ **Sensitivity switch—SENSITIVITY**  
Setting provides the same input sensitivity for all models. Larger amps will sound proportionally louder with the same amount of headroom.  
0.775V: the sensitivity of both channels is 0.775V  
1.4V : the sensitivity of both channels is 1.4V
- ⑨ **SERIAL NUMBER AND RATINGS**  
The rated AC voltage and output power is shown on the serial number plate. Record the serial number in a safe place.