
USER MANUAL



DIGIAL AMPLIFIER K SERIES


1700W | 1400W | 1000W | 800W | 600W | 450W

Designed for Middle and High speaker




RoHS


SAFETY SYMBOLS




CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN




WARNING
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DO NOT EXPOSE EQUIPMENT TO RAIN OR MOISTURE!




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 a specific component shall be only replaced by the component specified in that documentation for safety reasons.




Hazardous live terminal.




Protective grounding terminal.



Alternating current/voltage.



ON :Denotes the apparatus is turned on.



OFF :Denotes the apparatus is turned off, because it uses the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed with your service.

WARNING:
Describes precautions that should be observed to prevent the danger of injury or death to the user.

CAUTION:
Describes precautions that should be observed to prevent danger of the apparatus.

WARNING

Power Supply

Ensures 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 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 dis-connect the power source.

Protective Grounding

the apparatus and 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 this apparatus to rain or moisture. Do not use this apparatus near water. Do not expose. 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 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 the plug, 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 a rag etc. Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flame ability for cleaning the apparatus body. Clean only with a 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 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 operate normally, or has been Dropped.

DIRECTIONS

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DIRECTIONS

First of all, we should thank and congratulate you choose the series power amplifier.K series amplifiers can adapt to and meet the requirements of your ideal. K series poweramplifier machine with full protection function. It includes, power soft start, dc overload shortcircuit, overheat, UHF, clipping limiter, and other functions, special protection relay output, it can reflect the rapid, accurate and is the relay cannot be compared. Machine appeared overtemperature protection of voice compression in proportion, in order to protect the voice is not interrupt.

High precision mechanical processing and painting process of the structure of the power amplifier and securing good appearance. Deliberately adopted a distortion resistance and impact resistance of cold rolled steel sheet to deal with in the process of using drag to pull to wear and vibration in transit. Low noise level 3 variable speed fan with good thermal stability, which means that the series power amplifier can use recording studio or other places where the demand is higher.

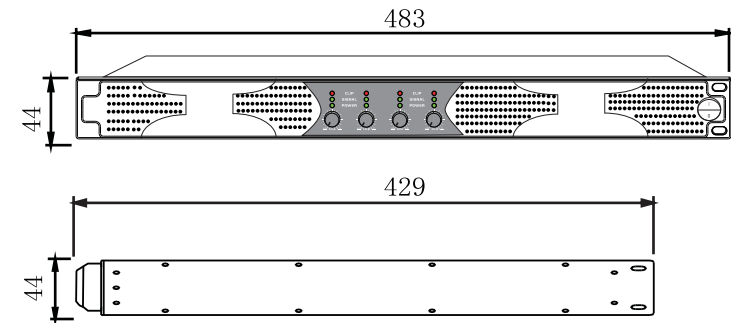
Comparison circuit constantly monitor the input and output signals of the power amplifier,one thousand appears nonlinear signal of internal pressure limiting device will be charged.They will protect due to clipping of the power amplifier speakers from overload. K series power amplifier has good characteristics of high fidelity, the internal layout of the power amplifier power amplifier has low distortion rate, total harmonic distortion (THD),intermodulation distortion (AMPTE - IM) and transient intermodulation distortion (DIM 30 and DIM 100) was measured with the most sophisticated testing equipment of the above data is very low. P series also adopts the latest digital power amplifier circuit, power amplifier efficiency is above 96%, small volume, big power density, HiFi sound. The latest digital circuit topology technology allows the amplifier in the output waveform under same testing conditions, more smooth, no burr, frequency response is more smooth, no burr in highfrequency, sound more delicate, more powerful low frequency.

User manual is designed to help you familiarize yourself with all the characteristics of the series amplifiers, please read it carefully, wish you get from new series amplifiers biggest happiness!

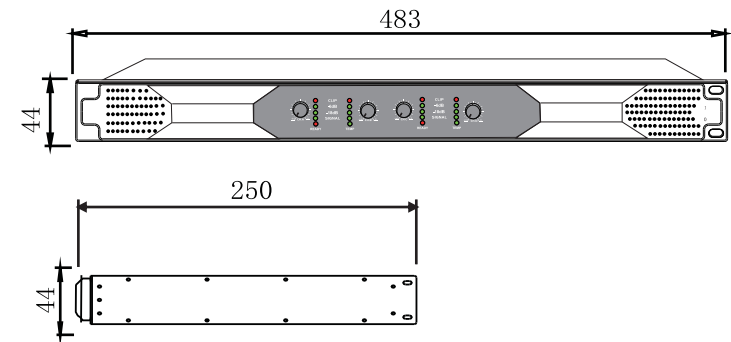
DIMENSIONS

Dimension(mm)

K4-800,K4-1000,K4-1400,K4-1700



K4-450



SPECIFICATIONS

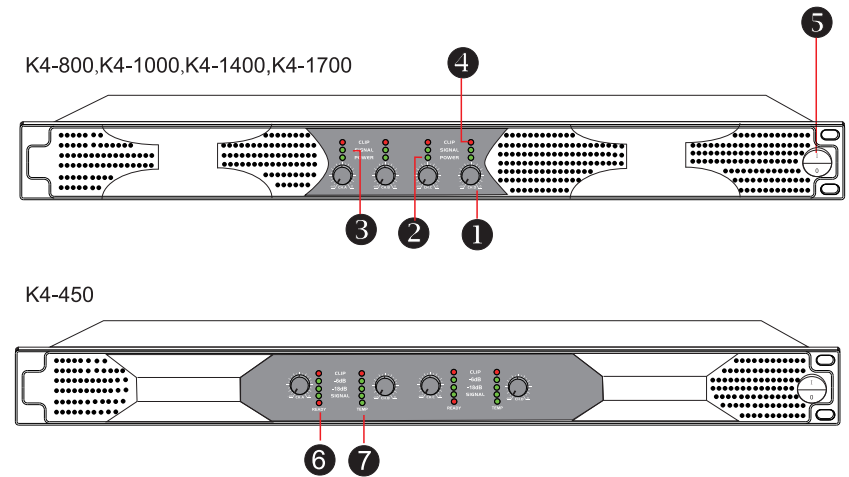
Professional Power Amplifier Specifications

Model	K2-450	K4-450	K4-600	K4-800	K4-1000	K4-1400	K4-1700
Output Power 1KHz,<0.05%THD:							
8 Ω Stereo Power:	2x450W	4x450W	4x600W	4x800W	4x1000W	4x1400W	4x1700W
4 Ω Stereo Power:	2x700W	4x700W	4x900W	4x1200W	4x1400W	4x2200W	4x2800W
8 Ω Bridge Power:			2x1800W	2x2400W	2x2800W	2x4500W	2x5000W
4 Ω Bridge Power:			2x2200W	2x3100W	2x3500W	2x5500W	2x6100W
THD (20Hz-20kHz for 1W):				<0.1%			
THD (1kHz and 1 dB below clipping):				<0.05%			
DSP Processor:				No			
Signal Noise Ration:				>106dB			
Frequency Response(+/-0.1dB):				10Hz-34kHz			
Damping coefficient:				>600			
Impedance(balanced/unbalanced):				20K Ω /10K Ω			
Gain (optional):				0.775V/1V/32dB			
Output socket:				Speakon Connectors			
Input socket:				Combo XLR type,3pin			
Link socket:				No			
Protection:				Short circuit, open circuit, thermal, overload, DC, super audio protection			
Power Requirement:	90-265V~50Hz(PFC) (Remark K4-450/K2-450 is single voltage 110V or 220V)						
Size(W x H x D):	483x429x44mm						
Weight(net):	5Kg	6Kg	8Kg	9Kg	9Kg	10.5Kg	11Kg

Caution

To protect and extend your amplifier's working life, please don't use this amplifier under 2 ohms. K series amplifier are suit for Middle and High speaker, not for Subwoofer.

FRONT PANEL



1. Rotary Knob - Level control

Calibrated detente potentiometers to alter the total gain of the power amplifier .In order to avoid distortions in mixing consoles upstream , these controls should normally be positioned between 0dB and-6dB . The calibrated markings show the additional attenuation directly.

2.Power ON indication

This LED light up when the mains switch is pressed .If it does not light up ,the unit is not connected to the mains or the mains fuse has blown .

3.SIGNAL - Output indication

This LED lights up if a signal is present at the power amplifier output .The indicator goes off when the speaker line has shorted or a protective circuit has been activated thus indicating that there is no signal at the speaker output terminals .

4. CLIP - LIMIT

This LED lights up if the limiter has been activated and the power amplifier is being operated at the clip level .If the LED flashes briefly ,this is not a cause for concern. If this LED is lit permanently ,the volume should be reduced to avoid overload damages to the connected loudspeaker systems.

5.POWER Switch

The unit is switched on via the power switch. The loudspeaker outputs are switched on via delayed relays so that no startup transients are audible. A current limiter prevents startup peaks on the mains line and prevents the mains fuse from blowing.

6.READY

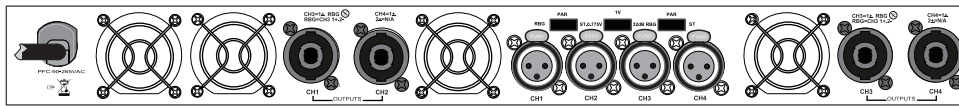
Power on indication. When amplifier power on, the light will be turn on too.

7. TEMP

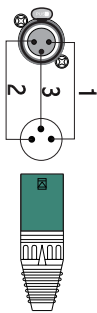
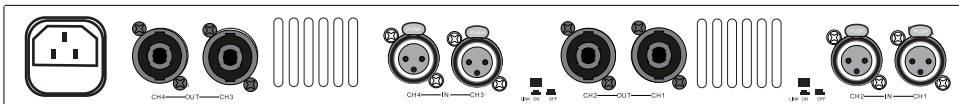
High temperature indicator light. When the amplifier's temperaturn too high, the light will be turn on. Please turn down the volume.

REAR PANEL

K4-800,K4-1000,K4-1400,K4-1700



K4-450



Signal input connect

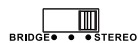
Sound source input through XLR;
Power amplifier input signal cable is according to IEC268(choose electronic balance) to avoid noise. If any other trouble, please contact with supplier.

XLR balanced input cable:

1:Shielded cable(ground) 2: a,+Life, hot 3: b,+Life,cold

XLR unbalanced input cable:

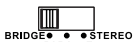
1:Shielded cable 2: a,+Life, hot 3: Shielded cable(ground) or empty
If unbalanced device get the signal from 3 and 2, will cause noise or high frequency Self-excited, maybe make trouble for amplifier or speaker. So connect 1 and 3 together, or make 3 empty.



(picture 1)



(picture 2)



(picture 3)

Input mode choice

Stereo mode(factory mode)

If set as picture1,channel A and B are stereo mode, set each channel volume directly.Operation of Channel C and D are same;

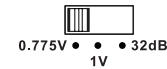
Parallel mode

If set as picture2,channel A and B are parallel mode, input signal into channel A , then both A and B have signal output.Set each channel volume directly. Operation of Channel C and Channel D are same.

Bridge mode (Remark: K4-450 doesn't have Bridge function)

If set as picture3,channel A and B are bridge mode,input signal into channel A, channel A and B compose of mono output, channel A control the volume together. Operation of Channel C and Channel D are same.

REAR PANEL



Input sensitivity choice;

The input sensitivity choice of this device is
0.775V(factory data)1V 32dB

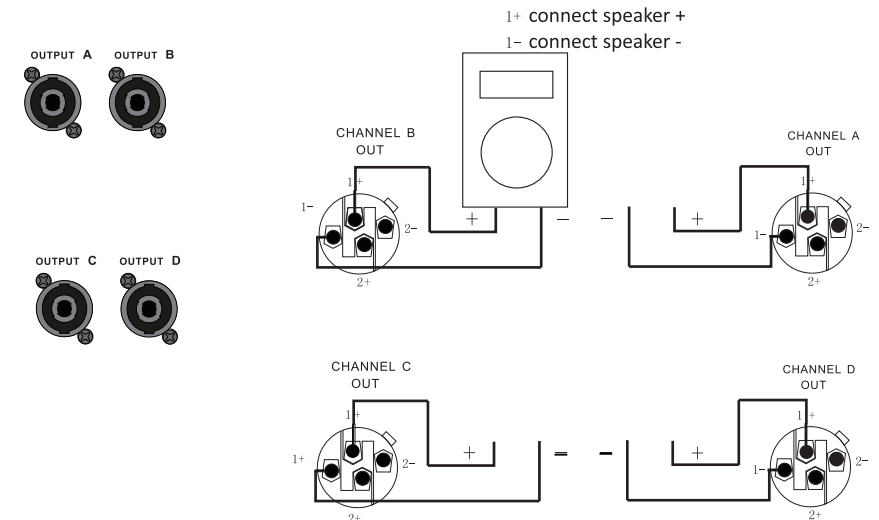


k4-450 LINK Function

If turn on the LINK function, CH1 signal will link to CH2;
CH3 signal will link to CH4.

Power amplifier output connection

1. Stereo or parallel mode: speaker connecting picture



2. Bridge mode: speaker connecting picture

