# PROFESSIONAL

### **POWER AMPLIFIER**



KS SERIES



OPERATION INSTRUCTIONS

#### SYSMBOLIZATION:

When an arrow appears in the triangle sign, there is a alarm of dangerous Voltage or possible dangerous Voltages.

When an exclamatory appears in the triangle sing, the gaars must fulfill a manual instruction for safety daring

This of all offices county change.

#### . BYICE

To Avoid atachic shoot, Durit upon the upon information ; issue rather it to the qualified technicisms for the maintenance if the parts inside read adjustment or replacement.

#### WARNING:

Don't impose the We suggest the users apparatus to matrix to or hunder ways if the machine environment to avoid (uterfore midlo shock occurrence.....

#### NOTES:

We suggest the users adopt the following ways if the machine interfere radio reculver possibly: 1. adding peripheral equipments such as antenna for location or direction.

2.enlarger the distance among the apparatus.

3.using different power supply phase outlet.

 Refer service to the authority dealer or qualified technicians.

#### CAUTION:

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1. Be carefully read this manual before the application 2. Keeping this manual and Package properly for the f

2. Becomplying relevant were against the line of

#USbs. By appendix the apply at its by Dietrico, a pro- fright manufact provided and particle states and provided according to the heatest and provided according to

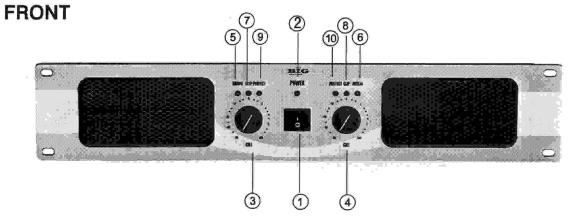
 Itingt close to the beside and prevent daily or disjects bumping the reaching and avoiding the drodown.

6.No user's parts serviceable inside marthine.

#### SUMMARY:

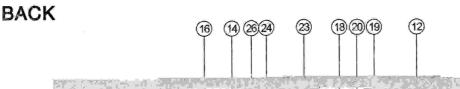
professional audio amplifier consists of 2U and 3U a. The series is the type of linear (analogue) power and the series is the super switching power supply, E them are designed by High efficiency and high relicious classified as H types, They has the exceptaracteristics of large intelligent compress requency response Band filter and hearing incomodifying.

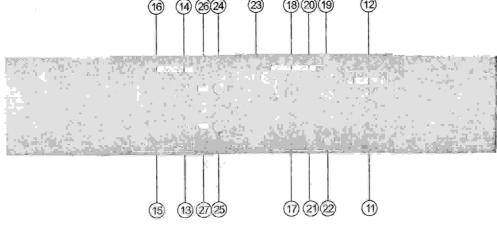
2U series includes the types:450.650.900.1200 3U seried includes the types:800.830.850.870.890



- Power Switch
- 2.Power light
- 3. Channel 1 gain (see output operation)
- 4. Channel 2 gain (see output operation)
- 5. Channel 1 Signal light (see light indication)

- 6. Channel 2 signal light (see light indication)
- 7. Channel 1 clip light (see light indication)
- 8. Channel 2 clip light (see light indication)
- 9. Channel 1 protection light (see light indication)
- 10. Channel 2 protection light (see light in dication)





- 11. AC power cord
- 12. Fuse (see fuse socket)
- 13. Channel 1 combo inputs (see connections)
- 14. Channel 2 combo inputs (see connections)
- 15. Channel 1 cannon input (see connections)
- 16. Channel 2 cannon input (see connections)
- 17. Channel 1 speak on output (see connections)
- 18. Channel 2 speak on output (see connections)
- 19. Channel 1 Negative post (see connections)

- 20. Channel 1 Positive Post (see connections)
- 21. Channel 2 Positive Post (see connections)
- 22. Channel 2 negative Post (see connections) 23. Operation Switch (see operation option)
- 24. Channel 1 Fliter Switch
- 25. Channel 2 Fliter Switch
- 26. Channel 1 bass Switch
- 27. Channel 2 bass Switch

Model	KS-16V	KS-18V	KS-22V	KS-33V
Rated Power Output(4 \Omega)	2X400W	2X600W	2X1000W	2X1500W
Bridged Output(8Ω)	800W	1200W	2000W	3000W
Frequency response	20-20kHz	20-20kHz	20-20kHz	20-20kHz
Totl Harmonic Distortion	<0.01%	<0.01%	<0.01%	<0.01%
Input impedance	20ΚΩ	20ΚΩ	<b>20K</b> Ω	20ΚΩ
Input sensitivity (d Bm)	0dB	0dB	OdB	0dB
Max input Gain	+20dB	+20dB	+20dB	+20dB
S/N(dB)	≥95dB	≥95dB	≽95dB	≽95dB
GW(kg)	15	16	24	26.7
Dimensions (W + H + D)mm	480X450X90	480X450X90	480X450X90	480X450X90
	<del></del>			

#### CR TECHNICAL PROPERTIED

All the This series amplifier sadopt the H type circuit Which is of high effecient More Stability low heat dispersion, stronger drive capacity. The intelligent compress limiter eliminate the output distortion throughout The Band filter technology Provide the excellent frequency response commensurate humane management in addition to the Product, take a sound modifying technology exceptionally this series series apply the technology of super switch power supply the new technology application makes it fast transit, the voltage surges. Stead, good, transient response and light - weight ever all.

#### SMART COMPRESS LIMITER

This series amplify has an independent compress limiter system in every channel, This system can function to ensure the reduction of output distortion Caused by overload. The limiter is free and outomatically adjusted. You may assure the system rest.

#### LOW INDEPED ANCE APPLICATION

The This series Series can Work at low loadimpe dance (single channel  $4\,\Omega$  or less than) and can match the low impedance till minimum  $2\,\Omega$  You can connect the outputs With multiple cabinets. Which are combined into  $4\,\Omega$  or  $8\,\Omega$  loads Be sure of the phase correction for speaker connection. No converse Phasei The Speakers from different Brands must be measured before correcting or faultphase would abate all the system Performance. Especially low frequency response.

#### BAND FILTER

There is independent filter (40Hz-300Hz) system with the technology of single frequency dB revising.

#### HEARING STMULATING

This system is designed to each channel, It generates Some ever harmonic wave to satisfy audience taste While amplifing the signals. The S/N Specifications is not affected as applying the system on or Broduct

#### PARALLEL MODE

You need to add a signal allocation when inputing many amps by a group of signals because of different input impedance. It would be a discount performance if paralleling the terminals.

#### **BRIDGE MONO**

All This series has the Bridge model connect function. It Sums Power of both channel to output tue load as a Single channel eventually raise the power outputs. By this way. Amps accept inputsignal by channel A, allgain (volume) is controlled by channel A Gain just filp the Switch to the BRIDGED Position on the rear Panel and load s Positive lind the channel A spositive output Post the load S Positive lind the channel B s Positive output Post This series Support low (4  $\Omega$ ) Bridge mono Be assure the speaker rated Power before Setting tng the Bridge mode.

#### POWER OPZRATION

The gains Set to infinitg position before furn Power on The amp enters the soft-start status switch on system represents a delay - must state. Whilst the indicators light on both channels. Then it works several Seconds later and lights off on both channels but continuing on for working (onling) indicators Avoiding Switch operation frequently.

#### VENTILATION

It must be a sufficient cool air amounts for cycle ventilation, be carefully avoiding some hot or corrosive gas generated by another equipments into amps. This series's fans blow from front to rear panel, unblock the air tunnels.

#### LEVEL OPERATION

You can control the gain knob each channel as required for output considering the speaker rating power while raise the gains This series has two independent gains for controlling clockwise increasing and counter wise decreasing, don't force it suddenly to avoid faulty parts assuring make no red light as possible as it could withstand.

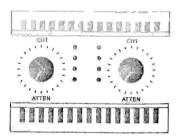
#### **FUSE SOCKET**

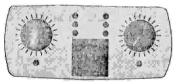
Please refer to the unit back panel diagram, play attention to operating the machine for unplug from socket at the first step, please find fuse parameter in the attachment for replacement.

#### **OPERATION MODE**

Both channel drive (STEREO), or bridge mono drive see rear panel switch instruction.







#### CHART FOR SYSTEM

This series has two input interface, XLR, 1/4 TRS, Balt40K Ω unhals 50K Ω, We recommend you use XLR inj. .it to reduce AC harmonic AC I. imitable as the input cords are longer. This surfer has also two output interface, posts and speakon that better take quality and shorter cords for connecting to achieve less power consumption and high damping factor. This series is operation instruction appears on the back panel.

#### INPUT CONNECTING

The  $\phi$  6.35 input plug can be directly to input port The XLR input balance connecting :P1 shield, P2 Positive, P3 Negative . In conditions of short route transmission, or less interference, non-Balance connecting Might be considered for input signal P2 Positive. P1 P3negative and shield.

## COMBINE THE INPUT SIGNAL EMERGENCY

We suggest a signal allocation as a group of input signals you could choice multiple input Socket as input port and XLR as output in the emergent event, To achieve optimum performance Gains must be adjusted properly as the different impedance of each one. This series has a self lock with input port, you must press lock button to pull out plug for disconnecting.

#### **OUTPUT TERMINALS**

You need to connect 1 + to speaker s positive post 1-to negative post in terms of speak socket, clockwise the plug as inserting the socket for locking it to ensure the amps connect the speaker correctly and tightly. Counter clockwise will unlock the plug to disconnect. You may connect amps through posts to speakers. Make sure the polarity correct to avoid false performance.

#### TROUBLE SHOOTING

No sound, No power indicator—check the power connection and fuse socket, In addition to using another socket to verify the previous condition such as turn of faulty. No sound. No signal indicator—check input connection or original signal, it likely occurs when the gain sets infinite position. No sound, Signal lights—check output connection or speaker No sound. Protecting lights—In puotection state, follow the steps to exclude the faulty possible, reinstate would be automatically. No channel separation—check the bridge mono switch and set it to stereo position assure the other equipment connect are add in stereo states. Noise or hum—check the plug and sockets, cord abrasion good in contact with connector, be carefully treated equipments such as power silicon controller, radiator apparatus etc.

- Distortion—check input signal altitude, and output states including speaker system.
- 2.Failure start —Turn off power for a few minutes, then starting power. The reason is caused by high speed switch on/off frequency, in addition to paying attention on power plugs or supply lines. Unbalance volume—check gains knobs, input signals and bridge model switch. Contact authorized dealer or the nearest service units.

#### INDICATIOR:

This series has a nine presentation of indicators When it (lights(protecting) on chann "IA, it means that channels A is in the state of distay- made profession for sord, or in the protestion with the structural in white consistence, it we six Sets 5, rocking (a. ... Albertiel A, in process rate by for work or in ... mediagraphic for the full lighter or bedrig. By learns varied algorithms Prince When it lights ("miting) are other and as it engages. rack in limitor state or indiculing the executive level, When it lights (profecting) on channel B, it means that channel B is in the state of delay-mute protection, for start or in the pretection state for abnormal working conditions When it lights (working) on channel R. it means ready for work or in working state When it lights or blinks. It means varied signal altitude When it lights (limiting) on channel Bit means work in limiter state or indicating the excessive level. On A There is a in dictated light inside for test and maitenance instruction.

#### Note:

There are four possible event happened as the protecting indicators light.1.sofet start 2.overheat 3.overload 4.short circuit.

