

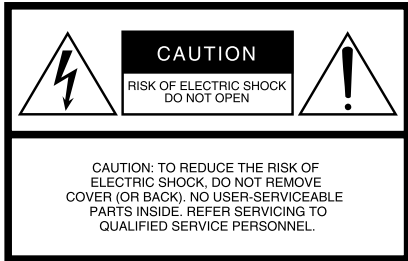
KVA-600

KVA-1000



USER MANUAL

Before attempting to connect, operate or adjust this product, please read these instructions completely.



The above warning is located on the top of the unit

Explanation of Graphical Symbols



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 persons.



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

IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 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-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.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience

receptacles, and 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 this 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.



WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED
IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW : EARTH
BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or colored GREEN or GREEN-and-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

General Specifications

Specifications	KVA-600	KVA-1000
Stereo Mode(both channels driver)		
8Ω/ RMS 1 kHz / 1% THD	2 x 600W	2 x 1000W
4Ω/ RMS 1 kHz / 1% THD	2 x 900W	2 x 1500W
2Ω**/ EIA 1 kHz / 1% THD(Not Recommendable)	2 x 1200W	2 x 2000W
** , the marked power is limited to burst mode power and is not recommended for long-term use. Due to the limitation of AC working current, burst mode test is required!		
Bridge Mono Mode		
8Ω/ EIA 1 kHz / 1% THD	1800W	3000W
4Ω**/ EIA 1 kHz / 1% THD(Not Recommendable)	2400W	4000W
** , the marked power is limited to burst mode power and is not recommended for long-term use. Due to the limitation of AC working current, burst mode test is required!		
MAXIMUM DISTORTION 8 ohms 20-20kHz, 1dB below rated power	0.2%	
FREQUENCY RESPONSE 8 ohms	20-20kHz, +/-0.5dB, all models.	
NOISE FLOOR 20Hz-20kHz	-95dB	
DAMPING FACTOR 8 ohms	>700	
OUTPUT CIRCUIT TYPE	Class-TD	
INPUT SENSITIVITY	1.0V, 1.4V, 2.0V	
INPUT IMPEDANCE	>10k ohms, balanced or unbalanced, all models.	
FRONT PANEL	POWER switch(Push on/Push off), Two Volume control knobs (one per ch)	
INDICATORS	POWER(2 x Green), SIGNAL(2 x Green), CLIP(2 x Red), PROTECTION(2 x Red), BRIDGE(1 x yellow), PARALLEL(1 x yellow)	
OUTPUT CONNECTORS	Speakon(one per ch)	
INPUT CONNECTORS Each channel:	Male XLR, Female XLR,	
AMPLIFIER AND LOAD PROTECTION	Short circuit, open circuit, thermal, RF protection. On/off muting, DC fault shutdown, active inrush limiting.	
AC POWER, CORDSET 120V 50/60Hz	15A/250V	25A/250V
220V /50Hz	8A/250V	15A/250V
DIMENSIONS All models	483 x 365 x 45mm	483 x 368 x 66mm
WEIGHT Net	7Kg	8.5Kg
Shipping	8.8Kg	10.3Kg

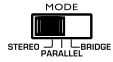
**** , the marked power is limited to burst mode power and is not recommended for long-term use. Due to the limitation of AC working current, burst mode test is required!**

Due to continuous development these specifications are subject to change without notice.

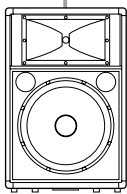
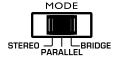
Speaker impedance

Speakers can be connected to the amplifier as shown below. Note that speaker impedance will vary according to the connection method and the number of speakers. Please be sure that your speaker's impedance is not less than the relevant minimum value indicated below.

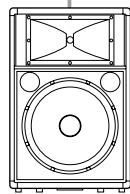
Connection configurations or STEREO and PARALLEL modes When using Speakon connector



or

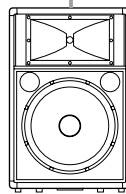
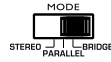


Minimum speaker impedance: 4 Ω



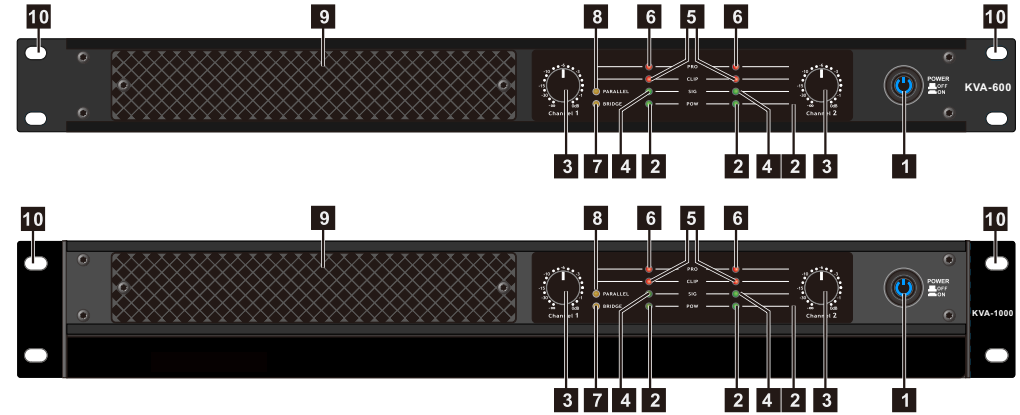
Minimum speaker impedance: 4 Ω

Connection configurations or BRIDGE When using Speakon connector



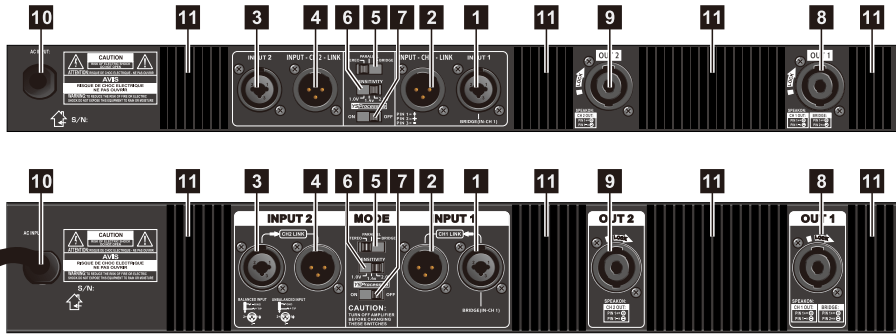
Minimum speaker impedance: 8 Ω

■ Front Panel



1. POWER switch and indicator
Press to toggle the power on or off. The POWER indicator lights up green when the power is ON.
2. Power source indicator
POWER indicator light up when unit is turn on ,the power amplifier is connect with power and will be running works within 3-5 seconds . .
3. Volume control knobs
Each control knob adjusts the volume of the corresponding channel from -∞ dB to 0 dB.
4. SIGNAL indicator
Lights up green when the corresponding channel's output level exceeds 5 Vrms (equivalent to 3 W into an 8Ω load, or 6 W into a 4Ω load)
5. CLIP indicator
Lights up red when the output signal distortion on the corresponding channel rises above 1%-indicating that "Clipping" has occurred because the signal level is too high.
6. Protect indicator
Lights up red to indicate that protection is in effect. Specifically, lights up if the heat sink overheats, or if a DC voltage is detected at the amplifier outputs. Also lights up for about 5 seconds at time of power-on, as the amp gets ready to operate. To provide protection, the unit will not output any sound from the speakers while this indicator is lit up. When start-up is completed or the problem is corrected, the indicator goes off and normal operation resumes.
7. BRIDGE indicator
Lights up the yellow when the button turn to BRIDGE at MODE on rear panel
8. PARALLEL indicator
Lights up the yellow when the button turn to PARALLEL at MODE on rear panel
9. The amplifier uses forced-air cooling. The cooling fans draw air in from the front and exhaust it through the rear. Please be sure that you do not block the air intakes or exhaust vents.
10. Install the security cover
When install 19"inch (1RU or 1.5RU) rack mounting, please use the #10 or 6mm screws from amplifier

■ Rear Panel



1. Channel 1 XLR Input

This XLR input is a balanced input. Connect this input to the left output of your mixer.

2. Channel 1 Link Socket

This balanced socket is used to link another amplifier.

3. Channel 2 XLR Input

This XLR input is a balanced input. Connect this input to the left output of your mixer.

4. Channel 2 Link Socket

This balanced socket is used to link another amplifier.

5. Operation Mode Selector

This switch is used to choose the operating mode of the power amplifier:

Mode stereo: 2 inputs(channel 1 and 2) and 2 outputs are used.

Mode parallel: 1 input(channel 1) and 2 outputs are used.

Mode bridge: 1 input(channel 1) and 1 output are used.

6. Input Sensitivity Selector

This selector allows to choose the input sensitivity: either 1.0V, 1.4V, 2.0V).

7. VSProcessing ON/OFF Switch

If you set this switch ON, the amplifier adds low- frequency compensation so as to enhance speaker output. The results (the actual change in the low-frequency balance) will vary according to the speaker type.

8.Channel 1 Turn Lock Output

Connect this turn lock output to a speaker. The branching is +1,-1(except in bridge mode where the branching is +1,+2).

9. Channel 2 Turn Lock Output

Connect this turn lock output to a speaker. The balance is +1,-1.

10. AC Cord

Plug this cord into the power supply socket. (Before using the power amplifier, check if the power supply is 220V).

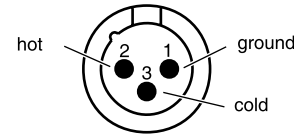
11.Air Entrance

This part is the air entrance. Don't obstruct it.

■ INPUT jacks

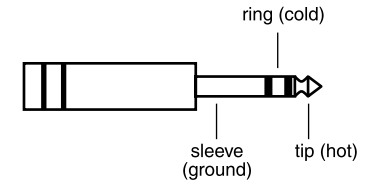
XLR-3-31 jack

The XLR-3-31 input jacks are wired as shown below.



Phone jack

Phone jacks are wired as follows.



Speakon connector

- (1) Turn off the POWER switch.
- (2) Insert the Neutrik NL4FC plugs into the Speakon connector on the rear of the amplifier, and turn clockwise to lock.

Neutrik NL4FC plugs

