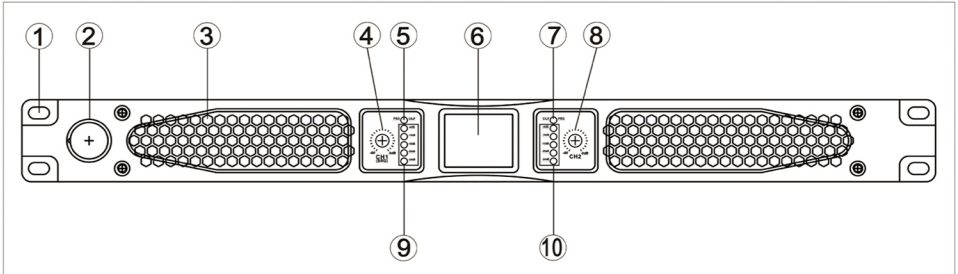


OWNER'S MANUAL

Front Panel - 2CH



1. Mounting holes

To fix it on the rack case

2. Main power switch

Power on/off

3. Exit for hot air flow

This air flow comes from the front and goes through the rear fans and exit

4. CH1 volume control knob

Working at BRG mode, it can control CH2 volume

5. CH1 protection/clip indicator

Protection: Keep red and no output, Clip: Red and flash and have output

6. LCD display

To check few statut, such as temperature, working mode...etc

7. CH2 protection/clip indicator

Protection: Keep red and no output, Clip: Red and flash and have output

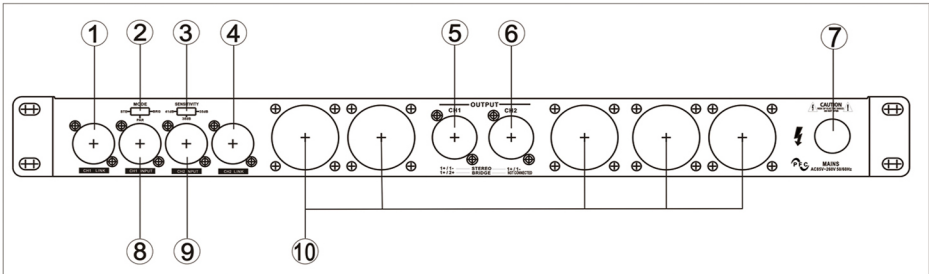
8. CH2 volume control knob

When working at BRG mode, it is not available

9. CH1 signal status lights

10. CH2 signal status lights

Rear Panel - 2CH



1. CH1 input link

To link another amplifier

2. CH1&CH2 working mode switch

STE: Stereo, PAR: Parallel, BRG: Bridge

3. CH1&CH2 sensitivity switch

35dB(amplify 57 times), 38dB(amplify 80 times), 41dB(amplify 112 times)

4. CH2 input link

To link another amplifier

5. CH1 output

Used by a standard SPEAKON connector

6. CH2 output

Used by a standard SPEAKON connector

7. Main power supply cord

AC 90 - 260V ~50/60Hz

8. CH1 input

Used by a standard XLR connector

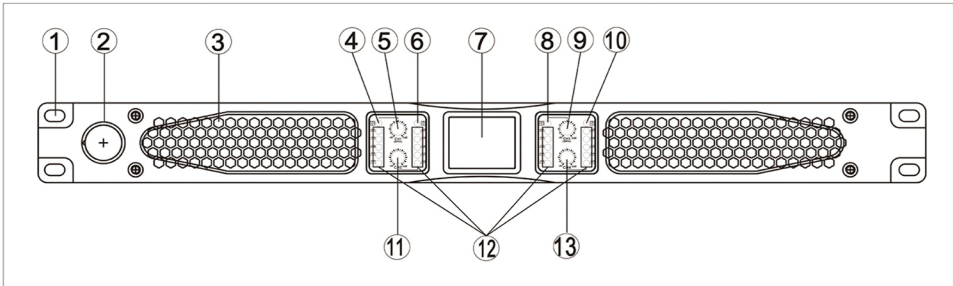
9. CH2 input

Used by a standard XLR connector

10. Hot air exhaust

The cold air intakes the amplifier from the front, cooling the internal heatsinks and exits by the fans

Front Panel - 4CH



1. Mounting holes

To fix it on the rack case

2. Main power switch

Power on/off

3. Exit for hot air flow

This air flow comes from the front and goes through the rear fans and exit

4. CH1 protection/clip indicator

Protection: Keep red and no output, Clip: Red and flash and have output

5. CH1 volume control knob

Working at BRG mode, it can control CH2 volume

6. CH2 protection/clip indicator

Protection: Keep red and no output, Clip: Red and flash and have output

7. LCD display

To check few statust, such as temperature, working mode...etc

8. CH3 protection/clip indicator

Protection: Keep red and no output, Clip: Red and flash and have output

9. CH3 volume control knob

Working at BRG mode, it can control CH4 volume

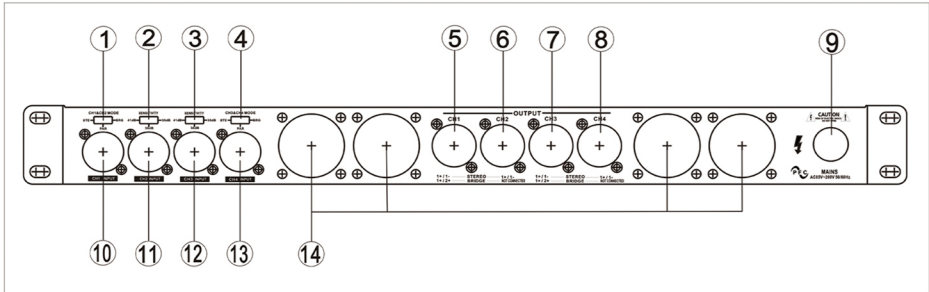
10. CH4 protection/clip indicator

Protection: Keep red and no output, Clip: Red and flash and have output

11. CH3 volume control knob

13. CH4 volume control knob

12. CH1, 2, 3, 4 signal status lights

PROFESSIONAL POWER AMPLIFIER**Rear Panel - 4CH****1. CH1&CH2 working mode switch**

STE: Stereo, PAR: Parallel, BRG: Bridge

4. CH3&CH4 working mode switch

STE: Stereo, PAR: Parallel, BRG: Bridge

2. CH1&CH2 sensitivity switch

35dB(amplify 57 times), 38dB(amplify 80 times), 41dB(amplify 112 times)

3. CH3&CH4 sensitivity switch

35dB(amplify 57 times), 38dB(amplify 80 times), 41dB(amplify 112 times)

5. CH1 output

Used by a standard SPEAKON connector

6. CH2 output

Used by a standard SPEAKON connector

7. CH3 output

Used by a standard SPEAKON connector

8. CH4 output

Used by a standard SPEAKON connector

9. Main power supply cord

AC 90 - 260V ~50/60Hz

10. CH1 input

Used by a standard XLR connector

11. CH2 input

Used by a standard XLR connector

12. CH3 input

Used by a standard XLR connector

13. CH4 input

Used by a standard XLR connector

14. Hot air exhaust

The cold air intakes the amplifier from the front, cooling the internal heatsinks and exits by the fans

PROFESSIONAL POWER AMPLIFIER



Model	KPA-Q09	KPA-D13	KPA-Q13	KPA-D18	KPA-D28	KPA-Q18
Name	Digital Power Amplifier			Digital Power Amplifier		
DSP Type	/	/	/	/	/	/
8 ohms stereo	4×900W	2×1300W	4×1300W	2×1800W	2×2800W	4×1800W
4 ohms stereo	4×1700W	2×2200W	4×2300W	2×3200W	2×5000W	4×3200W
2 ohms stereo	4×2200W	2×3100W	4×2600W	2×4200W	2×6000W	4×4200W
8 ohms bridged	2×3400W	4400W	2×4400W	6400W	10000W	2×6400W
4 ohms bridged	2×4400W	6200W	2×5200W	8400W	12000W	2×8400W
Output Circuitry	Class D	Class D	Class D	Class D	Class D	Class D
Frequency Response	20Hz - 20KHz(±0.5dB)			20Hz - 20KHz(±0.5dB)		
THD%: 1/8 RMS, 1KHZ	≤0.05%	≤0.05%	≤0.05%	≤0.05%	≤0.05%	≤0.05%
Slew Rate(RMS,1KHZ)	>50V/μs	>50V/μs	>50V/μs	>50V/μs	>50V/μs	>50V/μs
Damping Factor(RMS,1KHZ)	≥5000	≥5000	≥5000	≥5000	≥5000	≥5000
Dynamic:1/8 RMS, 1KHZ	-70dB	-70dB	-70dB	-70dB	-70dB	-70dB
Input Impedance	10K/20K Ohms, unbalanced or balanced			10K/20K Ohms, unbalanced or balanced		
S/N Ratio(A-weighted, RMS)	>105dB	>105dB	>105dB	>105dB	>105dB	>105dB
Power Supply	AC 90 - 260V ~50/60Hz			AC 90 - 260V ~50/60Hz		
Input Sensitivity	35dB / 38dB / 41dB			35dB / 38dB / 41dB		
A-Guard Protection System	Short circuit protection, DC protection, Undervoltage protection, Smart overheat management, Soft startup protection, Output limiter/overload protection, Limited current circuit					
Cooling	Continuously variable speed fans, Back to front venting, mandatory cooling					
Input/Output Connector	XLR + Speakon			XLR + Speakon		
Rack Space	1U	1U	1U	1U	1U	1U
Dimension(W*H*D mm)	483*44.5*402			483*44.5*477		
Packing Dimension (mm)	570*610*110	570*610*110	570*610*110	570*610*110	570*610*110	570*610*110
Net Weight	10.8kg	10.8kg	10.8kg	10.8kg	11kg	11kg

*Testing standard: EIA, 1KHz sine wave, 40ms, 220V.

* Features and Specifications are subject to change without prior notice.

PROFESSIONAL POWER AMPLIFIER

Safety Information



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

WARNING: To reduce of fire or electric shock, do not expose this appliance to rain and moisture. Electrical equipments should NEVER be kept or stored in damp environments.



This symbol, wherever appears, is intended to alert the user to the presence of un-insulated dangerous voltage within the appliance enclosure that may be of sufficient magnitude to a risk of electric shock.



This symbol, wherever appears, is intended to alert the user to the presence of important operating and maintenance(servicing)instruction in the literature accompanying this appliance.



This symbol means: indoor use only.



This symbol means: Read instructions.

Safety Informations

1. **Read Instructions** → All the safety and operating instructions should be read before this products is connected and used.
2. **Read Instructions** → The safety and operating instructions should be kept for future reference.
3. **Heed Warning** → All warnings on this appliance and in these operating instructions should be followed.
4. **Follow Instruction** → All operating and other instructions should be followed.
5. **Heat,Water and Moisture** → Do not place this appliance to close to any high heat sources such as radiators. Also this appliance should be kept away form direct contact with liquids.
6. **Ventilation** → The appliance should be situated so that it is location or position does not interfere with it is proper ventilation. For example, the appliance should not be situated on a sofa, bed, or similar surface that may block the ventilation opening; or keep the appliance away of those objects such as newspapers, carpet which may cover the ventilation opening or impede the flow of air through the ventilation opening.
7. **Power Source & Power Cord** → This appliance should be connected to a power supply only pf the type described in these operating instructions, or marked on the unit. Be sure connect the appliance to a mains power socket which with a protective grounding connection. Power supply cord should be routed so that the are not likely to be walked upon or pinched by the items placed on or against them. When removing the cord from a power outlet be sure to remove it by holding the plug attachment and not by pulling on The cord. Check the total maximum power of your AC wall outlet and make sure it has the enough power to match the Power Consumption of this appliance, otherwise you could overload the wall outlet, which could cause fire.
8. **Internal/External Voltage Selectors** → Internal of external voltage selector switches, if any,should only be reset and re-equipped with a proper plug for alternative voltage by a qualified service technician. Do not attempt to alter this yourself.
9. **Object & Liquid Entry** → Take care to avoid any objects falling into or liquids are not spilled in to the inside of the appliance.
10. **Cleaning** → Unplug the appliance first and clean only with a dry cloth.
11. **Non-use Period** → The power cord of the appliance should be unplugged from the outlet when left unused for long periods of time.
12. **Unpacking & Setup** → Please check your appliance for any damage after unpacking (before connecting)and contact your dealer in case of any related complains. Take care of choosing your installation place and the correct AC connection. If built in to a case, be aware that the depth and the weight of some kind appliance(such as Amplifier)does require an additional fixing on the backside or the use of rack shelf supports. Never mount the amplifier in a rack just by fixing it on the front plate-Manufacturer takes no responsibility in this case.
13. **Damage Requiring Service** → Servicing is required when the appliance has been damaged in any way, such as power cord or plug is damaged, liquid has been spilled or objects have fallen in the appliance, the appliance has been exposed to rain or moisture, dose not operate normally, or has Been dropped. Refer all servicing to qualified service personnel or contact your dealer. Do not attempt to repair by yourself.

PROFESSIONAL POWER AMPLIFIER

