

PQA Series Amplifiers



- PQA2100**2100 Watt System
- PQA3100**3100 Watt System
- PQA4100**4100 Watt System
- PQA5100**5100 Watt System

Rack Mountable Power Amplifier Systems
with Built-in SMT Technology

USER MANUAL

Warnings

- Read these instructions and keep them for future reference.
- Carefully follow instructions and follow directions carefully.
- Do not use this device near water or moisture.
- Clean amplifier housing only with a slightly damp cloth with water.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat source such as radiators, stoves, or other electrical devices that produce heat.
- If the provided plug does not fit easily into your outlet, consult an electrician for replacement of the obsolete outlet before attempting to power up the amplifier.
- Prevent the power cord from being walked on, bent, stretched or pinched, particularly at the plug or at the point where it exits from the amplifier.
- When uncertain about specifications, please first consult the Pyle Audio website and see the FAQs.
- Ensure this unit is placed on a stable and flat surface and can accommodate the weight of this unit.
- Unplug this unit during lightning storms or when it is unused for an extended period of time.
- Do not leave this device unattended when powered on.
- Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged or malfunctions in any manner. This would include damage to the power supply cord or plug, whenever liquid has been spilled or objects have fallen into the device, also when the device has been exposed to rain or moisture, when the unit ceases to operate normally, as when originally purchased.

Operation

If the unit is likely to undergo excess vibration through use, you must properly install the unit securely and the rack mountable reinforcement brackets must be properly fitted.

Damage caused by insufficient support is not covered by the warranty.

To prevent damage to the unit's panels, always use protective plastic cups or washers before tightening mounting bolts.

Ventilation gaps between units are not required, however care must be taken to ensure that an unobstructed free flow of clean air is possible from the back of the unit to the front. It is also important that neither air intakes, front or side exhaust grilles are covered. The internal airflow of these units are designed to minimize the malfunction of the electronics, and promote cooling air, for optimal and safe unit operation.

PLEASE NOTE: Users must ensure that any type of smoke and related substances are not allowed to enter the amplifier. Smokey air is corrosive and prolonged exposure will cause irreparable damage to your amplifier.

Do not expose the amplifier to rain or moisture during operation or storage. If the unit does come into contact with moisture, remove the AC power cord immediately and leave it in a suitably dry area to dry. Take precaution before reconnecting to a power supply.

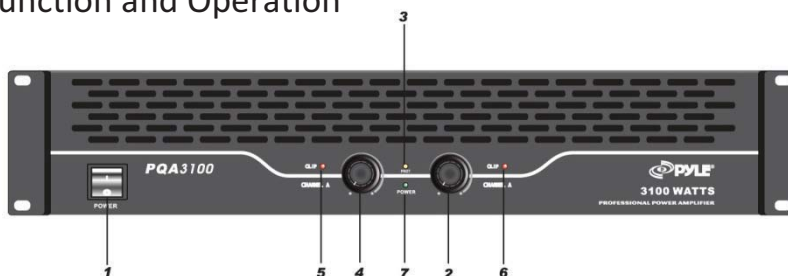
Be aware that when any equipment is taken from a cold to humid location, condensation may occur inside. Always allow time for the equipment to attain the same temperature as its environment before reconnecting to a power supply.

Built-in Protection

The PQA amplifiers feature integrated electronic protection including:

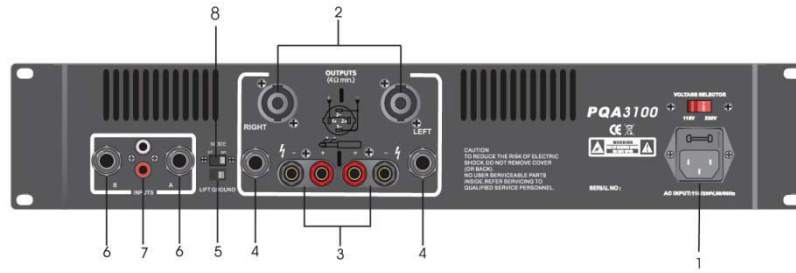
- Soft start function to prevent wave shock at power-on
- Delay function for prevention of shock at switch power-on
- DC current protection
- Over-electric current protection
- Cut-wave protection
- Overheat protection

Amplifier Function and Operation



1.	Power ON /OFF	Power the device ON and the soft start and wave shock prevention activates. The soft boot-up of the amplifier takes about 4 seconds to complete and a silent 'double noise' can be heard indicating the unit is ready for operation. You can now connect your speakers to the unit.
2.	Channel B Level Adjustment	Use this knob to adjust volume.
3.	Protection Level Indicator	This LED lights on after 4-6 seconds after power ON. It is now in Standby status, ready for use. Another possible reason for the light: Internal temperature is above 85 degrees Celsius. Another possible reason for the light: the amplifier is not functioning optimally and the center-voltage should be switched to unbalanced.
4.	Channel A Level Adjustment	Use this knob to adjust volume.
5. and 6.	Channel A/B Cut-Wave LED	When the output level is maxed out, the wave-cut problem will result; please reduce the input levels. Another possible reason for the light: you should not have sound from an input of one signal, the LED will remain lit continuously. Power of the amplifier, check your equipment and restart.
7.	Power LED	Blue light indicates power ON.

Amplifier Function and Operation



1.	Power Cord Receptacle and Fuse	When an electric problem occurs, the fuse prevents unnecessary power to the unit to cause a problem.
2.	Channel A/B Speakon Output Socket	As the operation is in Stereo Mode, connect speakers by way of 1+ 2+; 1- 2-
3.	Channel A/B Binding Output Connector	As the operation is in Stereo Mode, connect speakers by way of Red+; Black-
4.	Channel A/B Jack Output Connector	As the operation is in Stereo Mode, connect speakers by way of Tip=signal+; ring=signal; sleeve=ground
5.	Ground Lift Switch	Setting tubs switch to ground and break, you can break the ground loop between the amplifier and the chassis grounds of various components. The resistor is 100K Ohm.
6.	Channel A/B Jack Input Connector	Using the 1/4" standard, unbalanced connector, you can insert unbalanced and balanced signals. Tip=signal+; ring=signal; sleeve=ground
7.	Channel A/B Signal AV Connector	For Unbalanced use ONLY. Tip=signal; sleeve=ground.
8.	Bridge Mode (*Not available in PQA2100)	Channel A Output + connector is the bridge connector +; while the Channel B connector is the bridge connector -.



PQA2100

Technical Specs

Model	PQA 2100	PQA 3100	PQA 4100	PQA 5100	
OUTPUT POWER AT 20Hz-20KHz THD	4 OHMS 8 OHMS 2 OHMS	1050+1050 WRMS 460+460w 230+230w 920+920w	1550+1550WRMS 760+760W 380+380W 1520+1520W	2050+2050 WRMS 1000+1000W 500+500W 2000+2000W	2550+2550WRMS 1200+1200W 600+600W 2400+2400W
	10Hz-50KHz/-1.5dB				
MAXIMUM INPUT LEVEL (LIMITER ON)	21dB/9V				
INPUT IMPEDANCE ACTIVE BALANCED	20K OHMS				
SIGNAL/NOISE RATIO A-WEIGHTED RMS	>85dB	>85dB	>90dB	>90dB	
CROSSTALK AT RATED OUTPUT POWER 8 OHMS	>70dB	>70dB	>70dB	>70dB	
DAMPING FACTOR F=1KHz 8 OHMS	>250	>250	>250	>250	
SLEW RATE	30 V/US	30 V/US	30 V/US	30 V/US	
PROTECTION	SHORT CIRCUIT, CURRENT LIMITED, THERMAL CUT OFF, SLOW START, LIMITER, AC LINE FUSE, DC FAULT, POWER UP/DOWN TRANSIENTS				
COOLING	VARIABLE SPEED FAN				
POWER CONSUMPTION HALF POWER 8 OHMS	<140W	<300W	<300W	<300W	
POWER SUPPLY	AC 115V-230V/50-60Hz				
DIMENSIONS(W*D*H)	482x314x88mm				
NET WEIGHT	8kg	9.5kg	10.5kg	11.5kg	

Service

Service may be obtained from an authorized Pyle Audio service center. Contact Pyle Audio and make sure you have a receipt as proof of purchase along with the defective unit. You will be then instructed to send or deliver the malfunctioning unit to an authorized center. They will handle the necessary paperwork and repair. Remember to transport your unit in the original factory packaging.

PYLE®

www.PyleAudio.com

email: support@PyleAudio.com