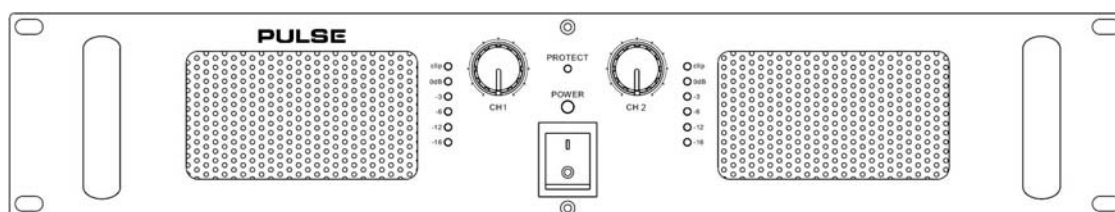


PULSE

Stereo Power Amplifiers

Models: PLA300, PLA500 & PLA900



www.pulse-audio.co.uk

Safety Information



The lightning bolt within a triangle is intended to alert the user to the presence of an insulated dangerous voltage levels within the product's enclosure.

This voltage may be of sufficient magnitude to constitute an electric shock risk.



To reduce the risk of electric shock, do not remove cover of this device. There are no user serviceable parts inside. Refer servicing only to qualified service personnel.



The exclamation point within a triangle is intended to alert the user to important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Precautions

- Read and retain these instructions
- Follow all instructions and heed warnings
- Do not use this device near water
- If the surface becomes dirty, clean only with dry cloth, do not use solvents or thinners
- Install in accordance with the manufacturer's instructions
- Do not block ventilation openings
- Do not install near heat sources such as radiators, heat registers, stoves, or other devices that produce heat
- Do not defeat the safety purpose of the grounded plug. This plug has two blades and a third ground prong. The wide blade or 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 stressed at the plugs, convenience receptacles, and where they exit the amplifier
- Only use accessories specified by the manufacturer
- Unplug the device during lightning storms or when unused for an extended time
- Refer all servicing to qualified personnel
- This device must not be exposed to water in any way. No object filled with liquids should be placed on apparatus

Congratulations on your purchase of this Pulse PLA Series Stereo Power Amplifier

This amplifier was designed specifically for use in permanent audio installations or mobile sound reinforcement scenarios, where high reliability and premium sound quality are a must. Highly rugged construction and high efficiency design make this amplifier perfect for continuous duty applications in situations where power will be left on for indefinite periods of time.

This amplifier is warranted from defects for one year from the date of purchase. Should your amplifier require service, either within or beyond that warranty period, please contact your Pulse Dealer or contact Pulse directly via info@pulse-audio.co.uk.

This unit includes a host of features, along with an impressive list of specifications, which are detailed over the next pages. Please take the time to read this document completely prior to installation of this product. Should you have questions regarding installation or operation of this unit, please contact the Pulse Technical Support Department.

Features

- 240W, 460W & 760W versions
- Class AB amplifiers
- Detented rotary volume controls
- Signal, clip, protect & power LED indicators
- LED VU meter for signal level monitoring
- Delayed switch on to help prevent speaker/amplifier damage
- Over temperature and neutral DC protection
- Rugged steel enclosures with front 19" rack mount ears
- Signal Inputs: 2x 6.35mm (1/4") unbalanced jack sockets
- Speaker Outputs: 2x Locking speaker sockets

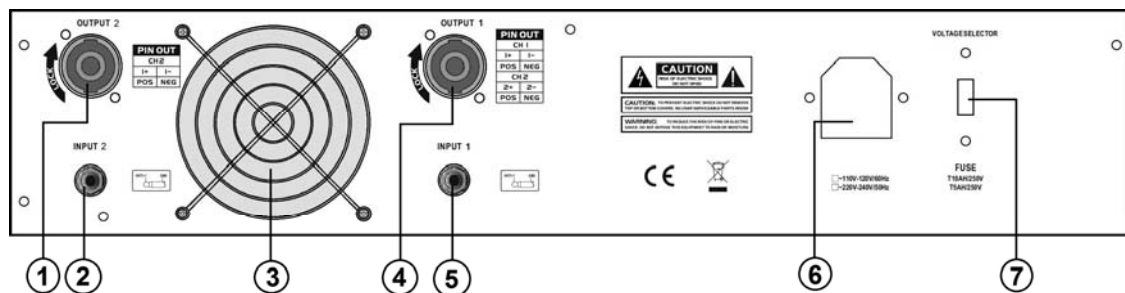
Specifications

Technical Data			
Model	PLA300	PLA500	PLA900
Power Output RMS (4Ω)	2x 120W	2x 230W	2x 380W
Power Output RMS (8Ω)	2x 75W	2x 150W	2x 250W
THD (1kHz/50W)	>0.5%		
Frequency Response	10Hz - 50kHz		
Input Sensitivity	1.228V		
Signal-to-Noise Ratio	>95dB	>95dB	>95dB
Dimensions (WxHxD):	485x95x240mm	485x95x240mm	485x95x360mm
Weight	10kg	14kg	15kg

Applications

- Live Music, DJ or Installation
- Ideal for powering large speaker cabinets or multiple cabinets in high level sound reinforcement
- This product is designed for professional or commercial use only and is not designed to be used in a domestic environment.

Connections / Controls



- 1) Channel 2 speaker output via locking speaker socket. (Use terminals 1+1-only, minimum speaker impedance 4 Ω)
- 2) Signal input for Channel 2, via unbalanced 6.35mm (1/4") jack.
- 3) Air ventilation port – DO NOT BLOCK.
- 4) Channel 1 speaker output via locking speaker socket. (Use terminals 1+1- for Channel 1, and terminals 2+2- for Channel 2, minimum speaker impedance 4 Ω per channel)
- 5) Signal input for Channel 1, via unbalanced 6.35mm (1/4") jack.
- 6) IEC Mains Inlet – Use only the supplied power cord or suitable replacement with the correct fuse rating.
- 7) Mains Voltage Switch – This product features a dual voltage power supply. For use within Europe this must be set to the 220-240Vac position. Incorrect selection of mains voltage input will cause the amplifier to fail and will not be covered by the standard warranty.

Operation:

- All connections to the amplifier should be made while the power is turned off and the attenuators/volume controls are set to the "0" or minimum position.
- As with all amplifiers the connected devices should be powered on in the correct order. When powering up, the amplifier should be the last to be switched on, when powering down, please ensure the amplifier is switched off first.
- The Pulse PLA series features Signal Clip LED's to indicate when the amplifier is within 3dB of "clipping". This indicates the amplifier is receiving its maximum input signal and the gain at source should now be reduced.
- Clipped signals are harmful to speakers and amplifiers, they will also sound "distorted" to the ear. Care should be taken to avoid clipping the signal at any point during the signal flow.
- The amplifier features a PROTECT mode indicated by the LED on the front panel. Should the amplifier enter PROTECT mode at any point please switch off the amplifier immediately. Once powered down the input signal should be turned down to the minimum and the load (speakers) disconnected. At this stage the speakers and output cabling should be checked for faults/damage and if they are in good working order may be reconnected. The amplifier can then be powered up again and the input signal increased. Should the amplifier remain in PROTECT mode permanently this indicates a fault and the amplifier will require servicing or repair by an engineer.
- The input connectors on the Pulse PLA series are standard 2-pole unbalanced 6.35mm (1/4") jack sockets.

- Choose speaker cables carefully – please use cables with cores of minimum 1.5mm² and under 10m in length to prevent power loss.
- Check all cables (speaker, signal and mains) for damage, loose terminals or potential short circuits on regular occasions.
- ⚠ Speaker wires carry high voltages; care should be taken to ensure no bare wires can be touched as this may result in electric shock.
- The Pulse PLA Series features a dual use locking speaker connector on Output A – this allows both amplifier channels to be accessed using one standard locking speaker connector. Pins 1+1- are connected to Channel A, pins 2+2- are connected to Channel B.

PINOUT - SOCKET 1	
CHANNEL 1	
1+	1-
POS	NEG
CHANNEL 2	
2+	2-
POS	NEG

PINOUT - SOCKET 2	
CHANNEL 2	
1+	1-
POS	NEG

- Do not use these amplifiers in damp or high humidity environments. Do not use outdoors or anywhere where liquids could fall or splash onto the amplifier.
- Ensure the amp is adequately ventilated, with free airflow around the front and rear panels. Keep away from other heat sources. If the amps are mounted in a rack with other amps, ensure there is adequate cool air flow front and rear. Note that air is drawn in through the front panel, and exhausted through the rear panel.
- NEVER cover the amplifiers, as they may overheat.
- PULSE power amplifiers are designed to fit standard 19" racks, with a 2U height and 14.5" depth (not including space for connectors & cables)
- Ensure that the AC power supply is correct for your amplifier. The required AC supply is stated on the rear panel next to the AC power input.
- Ensure that you use the correct type of mains lead for your equipment and country. This must be free from damage and easily accessible during use.
- Keep away from magnetic recording media (tape, mini disc, hard drive etc). Power amplifiers produce an electromagnetic field, which could affect stored files.
- Sound reinforcement systems can produce levels of sound that have the potential to damage a person's hearing. Please operate this equipment with due care and diligence. If you are in any doubt of the correct operating volume for any speaker/amplifier system, please seek advice from a audio industry professional of suitable qualification to advise on Sound Levels. We also advise the use of good quality decibel meters to ensure sound levels are maintained. In the UK the Health & Safety Executive will be able to offer advise regarding Noise in the Workplace.

Compliance

When this product reaches the end of its life, do not dispose with household waste. Please dispose of PULSE products in an environmentally sound fashion, or contact PULSE directly via www.pulse-audio.co.uk



Warranty

Pulse products are warranted, by Pulse, against manufacturer defects for a period of one year from the original date of purchase. This warranty is limited to manufacturer defects, in either materials or workmanship. Pulse, or any other worldwide divisions of Premier Farnell PLC, are not responsible for any consequential or inconsequential damage to any other component, structure or the cost of installation or removal of said items.

This warranty will not cover damage due to improper use such as (and not limited to) damaged cones, mounting frames, voice coils or items damaged by weather or moisture ingress/exposure.

For questions or specific information regarding warranty replacement or repair, contact:

PULSE
www.pulse-audio.co.uk