

# PULSE

## Compact Stereo Amplifier 20 Watts RMS x 2 Channels

**Model: SDA-40**



[www.pulse-audio.co.uk](http://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 SDA Series Stereo Amplifier**

This amplifier was designed specifically for use in permanent audio installations, 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](mailto: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**

- 20W RMS stereo amplifier, bridgeable to 40W RMS mono
- Highly efficient design (85%)
- Extreme compact size
- Rugged steel housing
- Independent L/R gain control
- Independent bass and treble control
- Switchable limiter
- RCA unbalanced line level inputs
- Detachable screw terminal balanced inputs, mic/line switchable
- Detachable screw terminal speaker outputs
- Attached brackets for easy wall mounting

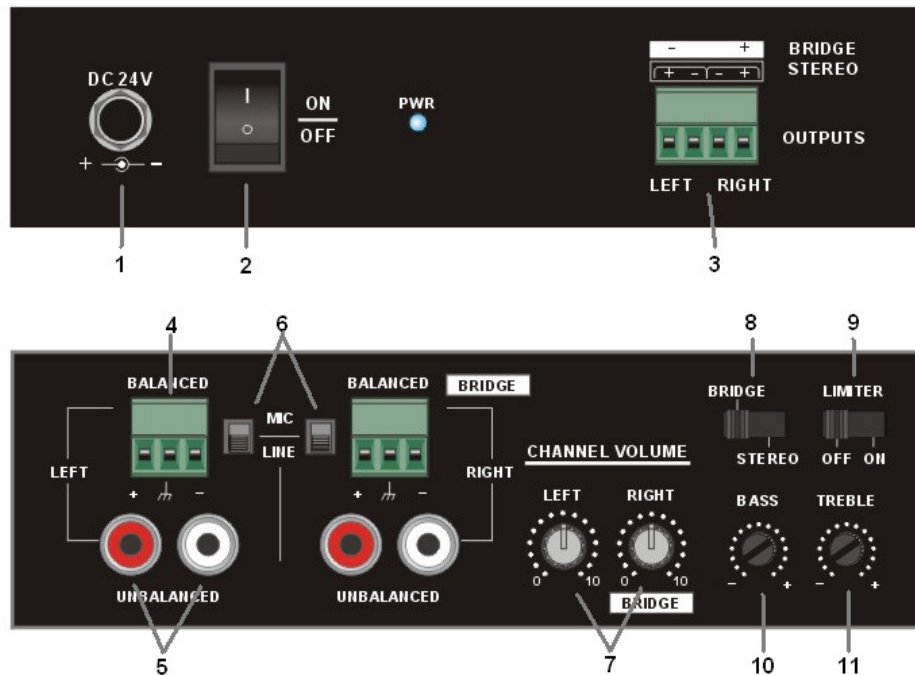
### **Specifications**

- Power Output:  
Both channels 20W x 2 Channels driven at 4ohms  
Mono bridge mode 40W x 1 Channel driven at 8ohms.
- Frequency Response: 50Hz ~ 18KHz
- Total Harmonic Distortion (THD): 0.05%
- Power requirements: 24VDC, AC adaptor supplied
- Dimensions: 56mm (H) x 230mm (W) x 115mm (D)
- Weight: 1kg.

### **Applications**

- Installation behind flat panel monitors to power local speakers
- Kiosk and retail displays
- Powering additional zones on an existing distributed audio system
- Audio program material for digital signage installations
- Classroom installations, especially where video projectors are used
- Gaming & Vending machines

## Connections / Controls



1. **DC Power Input** – Supplied AC adaptor provides 24VDC, 3A with 100~240VAC, 50~60Hz input range.
2. **Power ON/OFF Selector** – Turns amplifier power on or off. When on, the blue LED immediately to the right of this switch will illuminate.
3. **Speaker Output Connection** – Detachable Phoenix style connectors may be removed from the amplifier for easy access. Screw type terminals will accept up to 14AWG wire. Note the different labeling for stereo or bridged mono connection. Also, as this is a floating output, no speaker connections may be tied to chassis or earth ground.
4. **Balanced Input Connection** – Allows connection of line level or mic level source to the input of the amplifier. Detachable Phoenix style connectors may be removed from the amplifier for easy access and accept up to 14AWG wire. While this connection is intended for balanced use, unbalanced sources may also be used by strapping the low signal (-) and chassis ground terminals together.
5. **Unbalanced Input Connection** – Accepts standard line level signal from conventional consumer devices such as CD/DVD players, television monitors, tape decks and tuners. Note that stereo operation requires connection to left and right inputs. Each amplifier channel

provides two line level input connections for convenience when using as two independent mono amplifiers.

6. **Mic / Line Selector** – Determines whether screw terminal inputs accept Mic level (5mV) or Line level (775mV) signal level. If you are not sure of your devices signal level, first use Line level. If signal level is very low, set the output volume to the lowest setting and select the Mic position. Then slowly increase the Channel Level Controls.
7. **Left / Right Channel Level Controls** – Independent controls set output level for the amplifier. When the amplifier is operating in bridged mono mode, only the right control is used.
8. **Bridged / Stereo Mode Selector** – Allows the unit to operate as a stereo amplifier, with two channels each capable of 20W RMS output, or as a single mono amplifier channel, with 40W RMS output.
9. **Limiter ON/OFF Selector** – Engages or disengages the input signal limiter circuit for amplifier output protection. In the ON position, the amplifier will automatically limit high input signal levels, which will prevent the amplifier from distorting, and reduce potential harm to speakers. In the OFF position, the amplifier operates in normal mode. It should be noted that overall dynamic range will be reduced when the limiter is ON, thus being the tradeoff that occurs when this feature is utilized.
10. **Bass Control** – This control adjusts low frequencies centered at 100Hz, at a rate of  $\pm 10\text{dB}$ .
11. **Treble Control** – This control adjusts high frequencies centered at 10,000Hz, at a rate of  $\pm 10\text{dB}$ .

## Compliance

When this product reaches the end of its life, do not dispose with household waste. See [www.recycle-more.co.uk](http://www.recycle-more.co.uk) for details of how to dispose of PULSE products in an environmentally sound fashion, or contact PULSE directly via [www.pulse-audio.co.uk](http://www.pulse-audio.co.uk)



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 whether damaged items.

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

**PULSE**  
**[www.pulse-audio.co.uk](http://www.pulse-audio.co.uk)**