



# EPA502

Dual channel Class-D power amplifier

## ► Features

- 2 x 500 Watt RMS output power
- Energy-star certified
- Standby energy saving mode
- Lightweight Class-D amplifier
- Convection cooled
- Advanced protection circuitry
- Stereo, parallel and bridged mode
- High efficiency

## ► Applications

- Clubs & pubs
- Restaurants & bars
- Warehouses & retail stores
- Public & office buildings
- Mobile installations
- ...



The EPA series are energy efficient Class-D power amplifiers designed for a wide variation of applications, ranging from standard stereo configurations to multi-zone distributed speaker systems. They come available in various models with different output configuration and power ratings.

An outstanding sound quality is combined with other known advantages of Class-D amplifiers such as high energy efficiency. Automatic signal detection switches the amplifier to standby mode when no input signal is detected. This makes the amplifier comply to international energy and environmental requirement standards.

The compact size and lightweight design only requires a single 19" rackspace, while making them suitable for both fixed rack and mobile applications. The convection cooled construction requires only a minimum maintenance while guaranteeing high reliability.

The EPA502 is built as a dual channel (Stereo) amplifier containing two individually controllable channels capable of delivering a power of 2 x 500 Watt in stereo mode. In bridge mode, an output power of 1000 watt can be delivered to a single load. It features various specific functions and advanced protection circuitry which protects against DC malfunctioning, short circuit, overheating and overload.

The signal input connections are implemented using balanced XLR connectors with link output connectors, allowing linkthrough to other amplifiers. Loudspeaker outputs are connected using both Speakon compatible and terminal block output connectors.

## ► Specifications

SYSTEM SPECIFICATIONS	
RMS power @ 4 Ohm Stereo	2 x 500 Watt
RMS power @ 8 Ohm Stereo	2 x 300 Watt
RMS power @ 8 Ohm Bridge	1000 Watt
Frequency response	20 Hz - 20 kHz
Signal to noise ratio	> 90 dB
THD+N by 1 kHz (1/2 Rated Power)	< 0.1%
Crosstalk	> 70 dB
Technology	Class - D
Power supply	Switching mode
Power supply range	230-240V AC - 50/60 Hz
Input sensitivity	0 dB (1V RMS)
Input impedance	12 k Ohm balanced
Protection	DC Short-circuit Over heating Over load Signal limiting
Cooling system	Convection cooled
Connectors	Input: XLR input & signal linkthrough Output: Speakon compatible & 2-pin terminal block (5.08 mm)
Operating temperature	0° ~ 40° C at 95% humidity
Power consumption	426 Watt (1/3 MOP at 1 kHz)
Standby power consumption	0.7 Watt (~30 sec standby time)
PRODUCT FEATURES	
Dimensions (Width x Height x Depth)	482 x 44 x 330 mm
Weight net	4.7 Kg
Mounting	19"
Unit height	1 HE
Construction	Steel
Colour	Black
SHIPPING & ORDERING	
Packaging	Cardboard box
Shipping weight and volume	Kg - 0.028 Cbm
*AUDAC reserves the right to change specifications without notice: this is part of our policy to continuously improve our products.	

## ► Architects' and Engineers' Specifications

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The amplifier must be an energy efficient and compact dual channel Class-D power amplifier, containing two independent controllable amplifier channels with an output power of 2 x 500 Watt. Bridging the outputs shall be possible, merging the power to 1000 Watt for a single load. The construction must be transformerless using Class-D amplifier technology and powered by a switching power supply. Each channel shall have integrated circuitry to protect against short-circuits or mismatched loads and over-heating. The amplifier must be convection cooled so that maintenance can be kept to a strict minimum.

An automatic signal detection circuit shall be implemented, switching the amplifier to standby mode when no input signal is detected. The energy efficiency levels shall comply with energy-star and other international energy and environmental requirement standards.

The front panel shall contain an AC power switch accompanied by a blue power indicator LED and channel operation indicator LED's. A green signal LED's indicates the presence of an input signal and it's level exceeding the -20 dB level, a clip LED indicating the channel operation at maximum level and a protection LED indicating any fault detected shall be provided for each channel.

All connections shall be made on the rear panel of the unit. The signal input connections shall be balanced and performed using XLR connectors, including signal link-through connections. The output connections must be fitted with both Speakon compatible and terminal block connectors.

The amplifier shall operate on a 230-240V AC - 50/60 Hz mains network and shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the amplifier chassis shall be a fused IEC C14 type.

The amplifier chassis shall be a single rackspace steel constructed 19" housing. Depth from mounting surface to rear supports shall be 330 mm and the weight shall not exceed 4.7 Kg.