EPA254

Quad channel Class-D power amplifier

Features

- 4 x 250 Watt RMS output power
- Energy-star certified
- Standby energy saving mode
- Internal crossover network (switchable)
- 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 EPA254 is built as a quad channel amplifier containing four individually controllable channels capable of delivering a power of 4 x 250 Watt in stereo mode. The outputs can be bridged two-by-two for merging their power, while an integrated (selectable) active crossover network allows to apply high-pass and low-pass filters to the channels, creating a sub / top configuration for a stereo system with bass cabinet. 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. Loudspeaker outputs are connected using terminal block output connectors.

Specifications

SYSTEM SPECIFICATIONS		
RMS power @ 4 Ohm Stereo		4 x 250 Watt
RMS power @ 8 Ohm Stereo		4 x 130 Watt
RMS power @ 8 Ohm Bridge		2 x 500 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
	Output	2-pin terminal block (5.08 mm)
Operating temperature		0° ~ 40° C at 95% humidity
Power consumption		438 Watt (1/3 MOP at 1 kHz)
Standby power consumtion		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

The amplifier must be an energy efficient and compact quad channel Class-D power amplifier, containing four independent controllable amplifier channels with an output power of 4 x 250 Watt. Bridging the outputs two-by-two shall be possible, merging their power to 500 Watt while an integrated (selectable) active crossover network shall be implemented to apply high-pass and low-pass filters to the channels, creating a sub / top configuration for a stereo system with bass cabinet.

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. The output connections must be fitted with terminal block connectors.

The amplifier shall operate on a 100-240V 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.