EPA104

Quad-channel Class-D amplifier 4 x 100W - crossover

Highlights:

- Lightweight class-D amplifier
- Energy-star certified
- Standby energy saving mode
- Convention cooled
- Terminal block output connections
- XLR input connections with crossover operation mode switch
- Integrated crossover

This energy efficient stereo amplifier will automatically switch to a standby mode when no audio signals are detected (less than 1Watt power consumption in standby mode). Their weight and compact size makes these single rack space amplifiers ideal for both fixed and mobile installations. Their use of Class-D technology ensures excellent efficiency as well as outstanding sound quality. Thanks to the complete passively cooled entity only a minimal of maintenance is needed, while ensuring maximum reliability. The quad channel construction consists of four channels with the possibility to use two independent stereos. In combination with the integrated active crossover network, it offers a complete solution for compact stereo applications with a bass cabinet. Various specific functions and advanced circuitry guarantees an optimal protection against DC malfunctioning, short circuit, overheating and overload. Signal input connections are integrated with balanced XLR connectors. Outputs are connected using terminal block connectors.

Certification:

Applications:

- Retail
- Public facilities
- Corporate spaces
- Clubs, bars, restaurants
- Events
- Live performances

System specifications:

Frequency	Response (± 3 dB)		20 Hz - 20 kHz
Signal / Noise			> 90 dB
THD+N (@ 1 kHz)			< 0.1% (1/2 Rated Power)
Crosstalk (@ 1 kHz)			> 70 dB
Technology			Class-D
Power	Supply		Switching mode
			100 ~ 240 V AC / 50 ~ 60 Hz
	Consumption		188 W
		Standby	0.8 Watt (30 min standby time)
Inputs	Sensitivity (1W/1m)		0 dB (1V RMS)
	Impedance		12 kΩ balanced
	Connector		3-pin XLR female
Protection			DC Short circuit
			Over heating
			Over load
			Signal limiting
Cooling			Convection cooled
Operating temperature			0° ~ 40° @ 95% Humidity
Outputs	Connector		2-pin Euro Terminal Block (Pitch - 5.08 mm)
RMS Power	@ 4 Ω Stereo		4 x 100 W
	@ 8 Ω Bridge		2 x 200 W
	@ 8 Ω Stereo		4 x 50 W

Product Features:

Dimensions	482 x 44 x 330 mm (W x H x D)
Weight	4.500 kg
Mounting	19"
Unit height	1 HE
Construction	Steel
Colours	Black

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 100 Watt. Bridging the outputs two-by-two shall be possible, merging their power to 200 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 4.5 Kg.