



# DPA153

Triple channel class-D power amplifier

## ► Features

- 2 x 150 Watt + 300 Watt RMS output power
- Lightweight Class-D amplifier
- Internal crossover network on sub channel
- Compact size, high performance
- High efficiency
- Convection-cooled
- Low heat dissipation
- Advanced protection circuit
- Stereo, parallel and bridged mode

## ► Applications

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



The DPA series amplifiers are Class-D power amplifiers designed to meet the requirements for various kinds of applications, ranging from standard stereo home applications to Multi-Zone distributed speaker systems. They are designed in six different models of Class-D power amplifiers, divided in three different architectures to meet the requirements for all kinds of applications.

They combine the best of all features in one single series of amplifiers, providing an outstanding sound quality with all the known advantages of Class-D Amplifiers. Such as the excellent efficiency and very low heat dissipation. And due to the complete passively cooled entity only a minimal of maintenance is needed, while ensuring maximum reliability.

The small size of a single rack space make them very interesting for fixed rack mount as well as mobile applications.

The DPA153 is built as a two channel (Stereo) amplifiers, with an additional channel for powering a subwoofer cabinet. It contains an active crossover network with a frequency of 120Hz and advanced protection circuitry which protects against DC malfunctioning, short circuit, overheating and overload.

The signal input connections are accommodated with balanced XLR connectors and signal link through with other amplifiers is possible using the XLR output connectors. The operation mode can be selected between Stereo mode, Bridge mode and Parallel mode.

The output connections are accommodated with Euro-Terminal blocks.

## ► Specifications

SYSTEM SPECIFICATIONS	
RMS power satellite Stereo @ 8 Ohm	2 x 80 Watt
RMS power satellite Stereo @ 4 Ohm	2 x 150 Watt
RMS power satellite Bridge @ 8 Ohm	300 Watt
RMS power subwoofer @ 8 Ohm	300 Watt
Input sensitivity	4 dBu
Input impedance	20 k Ohm
Frequency response ( ± 1 dB)	20 Hz - 20 kHz
Signal to noise ratio	> 90 dB
Channel separation (8 Ohm, 1 kHz)	> 70 dB
T.H.D at 1 kHz, (1/2 rated power)	Less than 0.1%
Technology	Class-D
Power supply	Switching mode
Power source	100 ~ 240V AC / 50 ~ 60 Hz
Cooling	Convection cooled
Protection	DC short circuit
	Overheat
	Over load
	Signal limiting
Operating temperature	0° ~ 40° C at 95% humidity
Power consumption (1/3 MOP, 1kHz)	279 Watt
PRODUCT FEATURES	
Dimensions (Width x Height x Depht)	482 x 44 x 330 mm
Weight net	4.83 Kg
Mounting	19"
Unit height	1 HE
Construction	Steel
Colour	Black
SHIPPING & ORDERING	
Packaging	Cardboard box
Shipping weight and volume	5.98 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 a compact triple channel class D power amplifier, containing three amplifier channels whereof two are satellite channels having an output power of 150 Watt and the third one is a subwoofer channel with a power of 300 Watt. A switch on the rear side of the unit shall enable the internal crossover with a frequency of 120 Hz, applying high-pass filters to the satellite channels and a low-pass filter to the subwoofer channel. Bridging of both satellite channels shall allow merging of the output power to 300 Watt. 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.

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, allowing signal link-through. The output connections must be fitted with terminal block connectors.

The amplifier shall operate on a 110~240 V 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 4.83 Kg.

## ► Block diagram

