

## DPA2300 / DPA2450 / DPA2650 / DPA2800

### 1U 2-Channel Class-D Professional Power Amplifier



DPA2300 / DPA2450



DPA2650 / DPA2800

## Description

DPA2300/DPA2450/DPA2650/DPA2800 is a 1U 2-channel Class-D professional power amplifier that delivers powerful performance in a compact chassis. It features a high-efficiency switching power supply, precision gain control, and selectable output modes (Stereo / Parallel / Bridge) to suit different system setups. With balanced XLR inputs/outputs, Speakon connectors, and selectable input sensitivity (0.775V / 1.414V / 32dB), it ensures flexible connectivity. The unit is built with an aluminum alloy front panel and efficient front-to-rear airflow for reliable cooling, while its intelligent protection system guards against overload, short circuit, overheating, and more—ensuring stable and safe operation at all times.

## Features

- Class D power amplifier with high-efficiency switching power supply
- New aluminum alloy front panel with efficient ventilation and cooling design
- XLR balanced signal input/output connectors
- Speakon NL4 output connectors
- Three output modes: stereo, parallel, and bridge
- Three input sensitivity options
- Intelligent all-round electronic circuit protection system

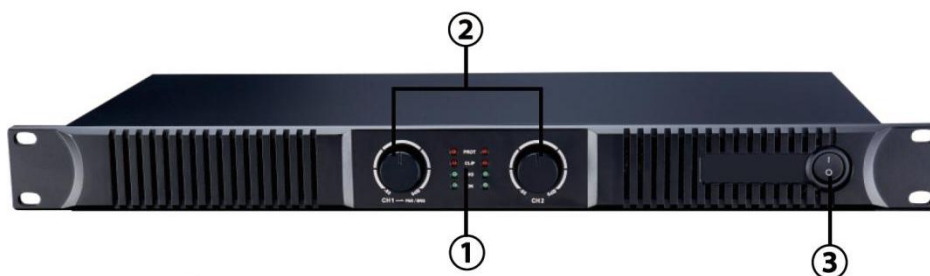
## Specifications

Model		DPA2300	DPA2450	DPA2650	DPA2800
8Ω Stereo Power*		2×300W	2×500W	2×650W	2×800W
4Ω Stereo Power**		2×500W	2×800W	2×1000W	2×1300W
8Ω Bridge Power**		1×1000W	1×1600W	1×2000W	1×2600W
Frequency Response		20Hz-20kHz(+0/-1dB)			
THD		≤0.15%			
SNR		≥100dB			
Input Sensitivity		0.775V/1.414V/32dB			
Input Impedance (Balanced/Unbalanced)		20kΩ/10kΩ			
Voltage Gain		36dB	38dB	39.3dB	40dB
Power Supply		AC200-250V/50Hz			
Amplifier Type		Class-D			
Cooling Method		Front-to-Rear Airflow			
Protection Function		Soft Start, DC Protection, Short Circuit Protection, VHF Protection, Overload Protection, Clipping/Limiting, Overheat Protection, Power-On Volume Ramp-Up			
Connectors	Input Section	Balanced XLR Female Input / Balanced Parallel XLR Male Output			
	Output Section	SPEAKON Output			
Product Dimensions (L×W×H)		200×483×45mm	260×483×45mm	260×483×45mm	260×483×45mm
Package Dimensions (L×W×H)		350×550×90mm	350×550×90mm	350×550×90mm	350×550×90mm
Net Weight		3.0kg	3.3kg	4.0kg	4.0kg
Gross Weight		3.9kg	4.3kg	5.0kg	5.0kg

### Note:

1. Power ratings marked with "\*" are measured using a 40ms, 1kHz sine wave pulse at 1% THD.
2. Power ratings marked with "\*\*" are measured using a 20ms, 1kHz sine wave pulse at 1% THD.

## Front / Rear Panel



### 1. Indicator Light

PROTE: Lights up when any protection circuit is activated.

CLIP: Lights up when the clipping circuit is active.

SIGNAL: Lights up when a signal is present.

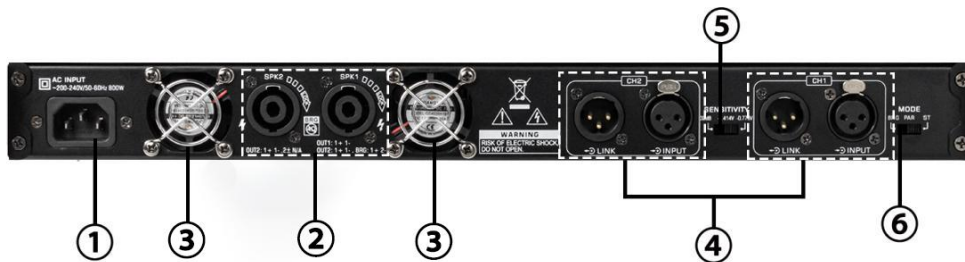
POWER: Lights up when the unit is powered on.

## 2. Gain Control Knobs (Volume Adjustment)

- In Stereo/Parallel Mode: CH1 and CH2 have independent volume control.
- In Bridge Mode: The CH1 knob controls both channels' volume, while the CH2 volume control is inactive.
- Before powering on, adjust both volume controls to the -80 position (minimum) to avoid speaker damage.



DPA2300 / DPA2450 Rear Panel



DPA2650 / DPA2800 Rear Panel

### 1. Fuse-Protected Power Input Socket

- Please ensure the input power complies with the voltage range specified on the rear panel.
- When replacing the fuse, use the specifications indicated on the rear panel.

### 2. CH1 & CH2 Power Output Interface

### 3. Fan Exhaust Vents

Located on both sides of the rear panel. Please ensure no obstructions such as cables, walls, or other objects block the vents during operation. A minimum clearance of 500mm is required for proper airflow.

### 4. CH1 & CH2 Signal Input and Output Interface

### 5. Signal Input Sensitivity Selection Switch

Allows selection between 0.775V, 1.414V, and 32dB to match the signal level of your audio source.

### 6. Output Mode Selection Switch

Provides three selectable output modes: BRG (Bridge), PAR (Parallel), and STEREO.