

# EPD-4241

4 x 240W Power amplifier - Class D



## Description

4 x 240W RMS Class D power amplifier for general purpose PA and professional audio applications, designed and manufactured in Spain.

Speaker output 100/70V Line (internally configurable) and 8Ω according to external wiring.

The equipment is designed for universal power supply at 110-230 VAC (Main) and 24 VDC (Secondary to batteries), in such a way that it can maintain operating even during power cuts in the main AC power supply system.

It incorporates electronic overload and short-circuit protection at the output as well as overheating protection.

Thanks to its standardised dimensions (standard 19", 1U.), it can be combined with other elements of the UDE range such as music sources, preamplifiers, etc., forming an homogeneous compact unit and occupying a minimum of space, its forced horizontal ventilation system allows it to be mounted stacked in a rack.

## Technical characteristics

<b>Output Power (L100V)</b>	4 x 240W RMS
<b>Output Power (8Ω)</b>	4 x 210W RMS
<b>Speaker output</b>	Depending on connection 8Ω or 100V/70V (internally configurable) <b>Type of connector:</b> Euroblock
<b>Signal Input Sensitivity</b>	775 mVRMS (0dBV) - Balanced input <b>Type of connector:</b> Euroblock
<b>Frequency response</b>	Selectable :40Hz - 20KHz ±3dB (Linea 100V 1/3 of the rated power) 80Hz - 20KHz ±3dB (Linea 100V 1/3 of the rated power)
<b>S/N Ratio</b>	>80dB (100V Line, weighting A)
<b>Crosstalk</b>	>60dB (100V Line, weighting A)
<b>Common Mode Rejection Ratio (CMRR)</b>	>55dB (100V Line, weighting A)
<b>Harmonic distortion</b>	<0.1% (100V Line, ½ of the rated power, 1KHz)
<b>High-Pass Filter</b>	87Hz -3dB (-12dB 1/8 87Hz-20KHz)
<b>Indications per channel</b>	Protection / Clip / Input Signal / Output Signal
<b>Working temperature</b>	-5°C to + 45°C
<b>Relative operating humidity</b>	<90% (without condensation)
<b>Mixed power supply</b>	110-230 Vac (50/60 Hz) / 24Vdc
<b>Consumption</b>	1150W
<b>Measures</b>	435x360x44mm
<b>Format</b>	1U / Rack 19"
<b>Weight</b>	6Kg



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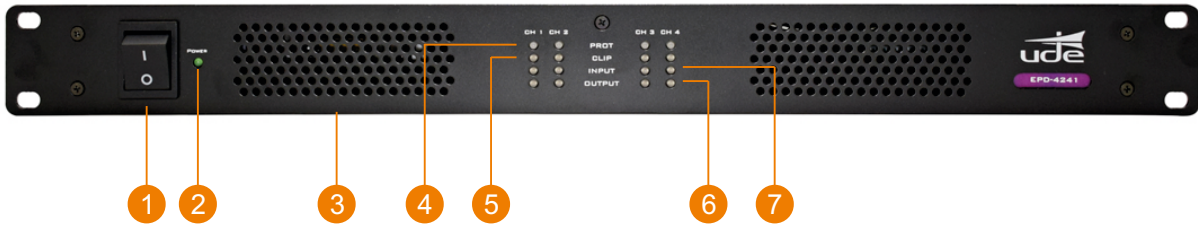
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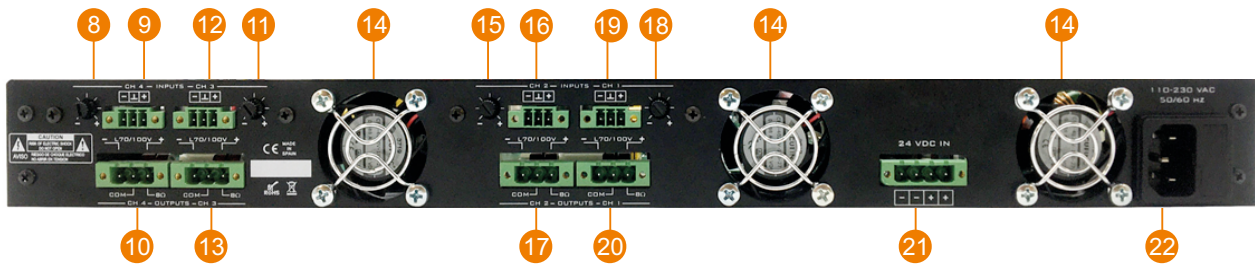
rev.0 | 610.625A | 1 / 4

## Front panel



- 1 ON / OFF Switch
- 2 POWER indicator
- 3 Ventilation grill
- 4 PROT indicator light CH1 - CH2 - CH3 - CH4:  
Indicates that the electronic protection for overloads, short-circuit, open circuit on the output or internal over temperature.
- 5 CLIP indicator light CH1 - CH2 - CH3 - CH4:  
Indicates excessive modulation.
- 6 OUTPUT indicator light CH1 - CH2 - CH3 - CH4:  
Indicates that a valid output signal has been detected.
- 7 INPUT indicator light CH1 - CH2 - CH3 - CH4:  
Indicates that a valid input signal has been detected.

## Rear panel



- 8 CH4 Master volume
- 9 CH4 Line input
- 10 CH4 Speaker Line output
- 11 CH3 Master volume
- 12 CH3 Line input
- 13 CH3 Speaker Line output
- 14 Fan
- 15 CH2 Master volume
- 16 CH2 Line input
- 17 CH2 Speaker line output
- 18 CH1 Master volume
- 19 CH1 Line input
- 20 CH1 Speaker line output
- 21 DC power supply input (24 VDC)
- 22 AC power supply input (110-230 VAC)

## Warnings and Precautions



TO REDUCE DE RISK OF ELECTRIC SHOCK, DO NOT OPEN THE COVER (OR BACK PART). INTERNAL COMPONENTS CANNOT BE REPLACED OR REPAIRED BY THE USER. CONSULT AUTHORIZED SERVICE PERSONNEL ONLY



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to users.



The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance instructions in the literature accompanying the equipment.

**CAUTION**

Ignoring the caution message may result in minor injury or damage of the product.

Do not expose the equipment to dripping or splashing water, do not place objects filled with liquids or naked flame sources, such as candles, on the appliance.

The working environment must be dry and completely free of dust.

To clean the equipment, use only a dry cloth. For persistent stains, disconnect the equipment from the power supply, use a cloth slightly dampened with a neutral soap solution. Dry the equipment thoroughly before reconnecting it to the power supply. Do not use the equipment if liquid has penetrated inside, wait for it to dry first.

Do not cover or block ventilation openings.

Install in accordance with the UDE's instructions.

Do not install the product near heat sources such as radiators, central heating grills, cookers or other heat-emitting appliances.

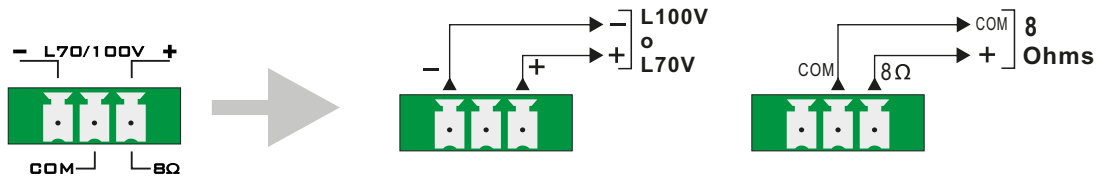
Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades and a third grounding prong.

The wide blade or the grounding prong provides added protection for the user.

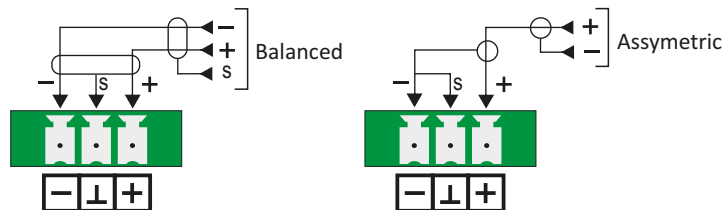
Should any intervention or access to the interior be required to make any configuration, the device must be disconnected from the power supply beforehand, taking into account that if it has a mixed power supply (AC/DC), it must be disconnected from both sources.

If the protection fuse blows, disconnect the equipment from the power supply and replace it with a fuse of the same value. Never replace the fuse with a fuse of a higher value than the rated value.

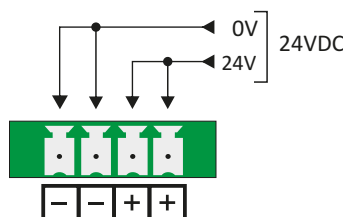
### CH1 - CH2 - CH3 - CH4 output



### CH1 - CH2 - CH3 - CH4 input



### 24V DC input



## High-Pass filter configuration

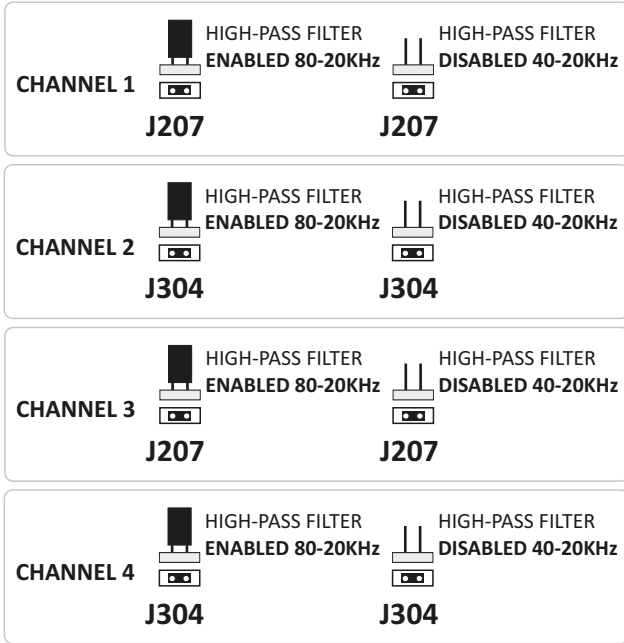
Before opening the equipment, make sure that it is switched off and disconnected from the mains and/or batteries.

Open the unit by removing the 12 screws securing the top cover.

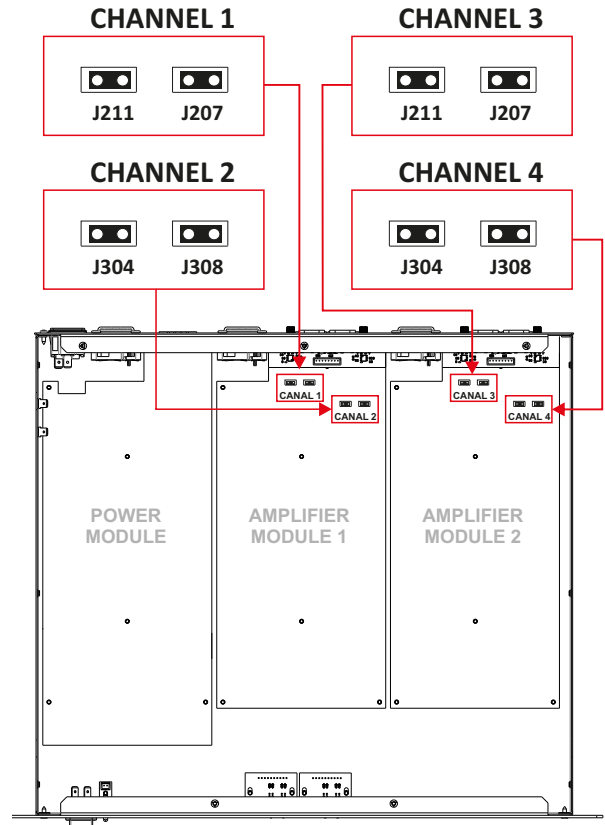
Locate jumper **J207** on the back of amplifier module 1 to configure channel 1 and jumper **J304** to configure channel 2.

Locate jumper **J207** on the back of amplifier module 2 to configure channel 3 and jumper **J304** to configure channel 4.

Choose the working mode:



The factory setting is with the filter on 80Hz-20KHz.



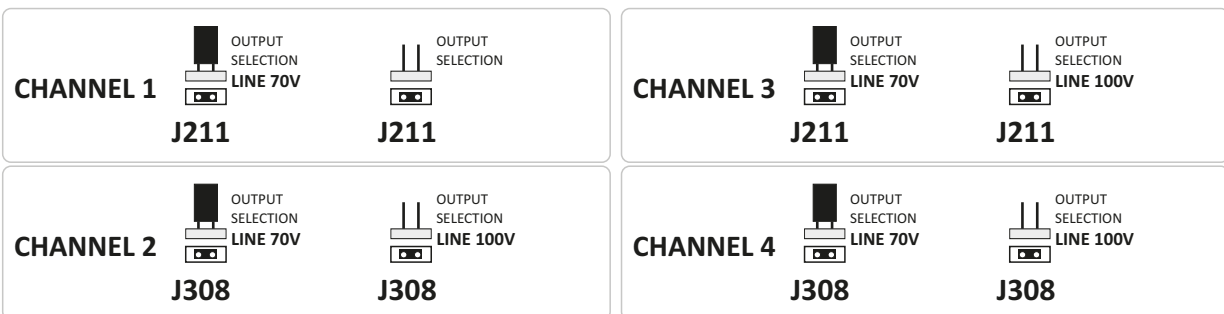
## 100/70V Line configuration

Before opening the equipment, make sure that it is switched off and disconnected from the mains and/or batteries.

Locate jumper **J211** on the back of amplifier module 1 to configure channel 1 and jumper **J308** to configure channel 2.

Locate jumper **J211** on the back of amplifier module 2 to configure channel 3 and jumper **J308** to configure channel 4.

Choose the working mode:



The factory setting is with 100V line