



PLE-1P240-IN Class-D Power Amplifier, 240W



The PLE-1P240-IN is a powerful power amplifier in a 19" case, 1U high, for rack-mounting or tabletop use. The Plena Class-D power amplifier series, with its varied amplification range, fulfills a wide variety of public address requirements.

System overview

The power amplifier LEDs on the front panel indicate Power On, Signal presence, Clip and Fault.

The amplifier has:

- A 100 V input for slave operation of the amplifier.
- An XLR loop-in and loop-through facility for ease of commissioning.
- Two outputs, one of 100 V and another of 70 V, for connecting to the loudspeakers with line matching transformers. The output voltage can be selected between 100 V and 70 V internally.
- A 4 Ω output to connect to the low impedance loudspeakers.

Functions

Amplifier protection

The internal fans provide efficient cooling of the amplifier to ensure high reliability during operation.

The amplifier is protected against overload and short circuits. In case of overheating, the amplifier output is reduced by -3 dB, as is indicated by the Clip LED. If the amplifier continues to operate in the same conditions, the amplifier enters the over-temperature protection mode to

- ▶ Multiple loudspeaker outputs: 70 V / 100 V and 4 Ω
- ▶ Excellent signal to noise ratio (> 70 dB)
- ▶ 100 V direct input

as a safe guard. This is indicated by the Fault LED. Once the amplifier returns to normal operation, the output also returns to the nominal levels.

Input

Gain or level control is located on the rear of the unit to avoid accidental setting changes.

Output

The amplifier has 70 V and 100 V outputs for constant voltage loudspeaker systems, and a low impedance output for 4 Ω loudspeaker loads.

Rear panel connections



- Power ON/OFF button
- Mains connector (3-pole) and mains fuse
- 100 V slave-In, Euro style screw terminal connector
- Line-In 1 input, 6.3 mm, 1/4" jack connector

- Line-In 2 input, 3 pin XLR female connector
- Line-Out 1 input, 6.3 mm, 1/4" jack connector
- Line-Out 2 input, 3 pin XLR female connector
- Cooling fan
- Outputs:
 - 70 V speaker output
 - 100 V speaker output
 - 4 Ω speaker output
- Volume control

Regulatory information

Certified for	According to
Safety	IEC 62368-1
Vibration and shock	IEC 60028-2-6; IEC 60068-2-27
Transport	ISTA 2A 2008
EMC emission	CISPR 32
EMC immunity	CISPR 35; IEC 61000-4-3

Installation/configuration notes

This is a professional product that should be installed, used and maintained by trained professionals only.

Parts included

Quantity	Component
1	Class-D Power amplifier
1	Power cord
2	Rack mounting bracket
1	Slave input connector, 100 V (1x2 phoenix connector)
1	Output connector (1x5 phoenix connector)
1	User manual

Technical specifications

Electrical

Mains power supply	
Input voltage (VAC)	230 VAC
Inrush current (A)	35 A
Power consumption (VA) (maximum)	580 VA

Performance	
Rated output (RMS) (W)	240 W

Frequency response (Hz) (+1 / -3 dB)	70 Hz – 18,000 Hz @ -10 dB of rated output power
Total harmonic distortion + noise (%)	< 1% @ rated output power
Minimum signal-to-noise ratio (dB)	> 70 dB

Inputs and outputs

Line inputs

Connector type	1/4" TRS jack; 3-pin female XLR
Sensitivity (V)	1 V
Input impedance (kΩ)	> 5 kΩ
Common-mode rejection ratio (dB)	25 dB
Gain (dB)	40 dB

70 V / 100 V input

Connector type	Phoenix connector (1x2)
Sensitivity (V)	100 V
Input impedance (kΩ)	40 kΩ

Line loop-through output

Connector type	3-pin male XLR
Nominal level (V)	1 V
Impedance	Direct connection to line input

Loudspeaker outputs

Connector type	Phoenix connector (1x5)
Direct output	4 Ω; 100 V; 70 V

Mechanical

Dimensions (H x W x D) (mm)	44 mm x 430 mm x 334 mm
Weight (kg)	7.2 kg
Color (RAL)	RAL 9017 Traffic black
Mounting type	Rack-mounted; Tabletop
Rack unit (U)	1 U (19 in)

Environmental

Operating temperature (°C)	-5 °C – 45 °C
Storage temperature (°C)	-20 °C – 70 °C
Operating relative humidity, non-condensing (%)	< 95%

Ordering information

PLE-1P240-IN Class-D Power Amplifier, 240W

Plena Class-D power amplifier of 240 W.

Order number **PLE-1P240-IN | F.01U.433.914**



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