



## PLE-2P480-IN Class-D Power Amplifier, 2x480W



The PLE-2P480-IN amplifier is a dual channel Class-D power amplifier. Its 2U housing allows for rack-mounting or tabletop use. The amplifier can be operated in either Dual mode or Bridge mode. In Bridge mode, the amplifier provides a low impedance output of 8 ohm.

The Plena power amplifier series, with its varied amplification range, fulfills a wide assortment of public address requirements.

### System overview

The Class-D power amplifier features a colorful LED bar on the front side to indicate the acoustic level of the signal in decibels. The PLE-2P480-IN has:

- A 100 V input for slave operation of the amplifier
- Two XLR loop-in and loop-through inputs with priority switching for ease of installation.
- 70 V and a 100 V outputs for connecting to the loudspeakers with line matching transformers. The output voltage can be selected between 100 V and 70 V.
- 8 and 4 ohm outputs for connecting to the low impedance speakers.

Gain or level control is located on the rear of the device to avoid changing settings accidentally.

### Functions

#### Dependability

The amplifier is protected against overload and short circuits. A temperature-controlled fan ensures high reliability at high output levels and low acoustic noise at

- ▶ Multiple outputs - 70 V / 100 V and 8/4 ohm
- ▶ Temperature controlled forced front to back ventilation, directly stackable
- ▶ Dual inputs with priority switching
- ▶ Excellent signal to noise ratio (> 80 dB)

lower output levels. An overheat protection circuit switches off the power stage, if the internal temperature reaches a critical limit due to poor ventilation or overload.

#### Input

The system has two balanced inputs with priority control, each with a loop-through facility. This makes it easy to connect remote systems that require priority control. An additional 100 V line input is provided to connect the amplifier to a 100 V loudspeaker line to provide more power to remote locations.

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

#### Output

The amplifier has 70 V and 100 V outputs for constant voltage loudspeaker systems, and a low impedance output for 8 or 4 ohm loudspeaker loads.

## Controls and indicators

### Front panel



- Signal 1:** Green LED for output level CH-1
- Clip 1:** Red LED for the Clip indication CH-1
- Signal 2:** Green LED for the output level CH-2/Bridge
- Clip 2:** Red LED for the Clip indication CH-2/Bridge
- On / Stand By:**
  - Green LED for power ON
  - Amber LED for standby
- Fault:** Red LED for the Fault indication
- Dual:** Green LED for the Dual channel mode
- Bridge:** Green LED for the Bridge mode

### Rear panel



- Volume control for input 1
- Volume control for input 2
- Output 2: 5-pin screw type phoenix connector (100 V / 70 V / 0 V / 4 ohm / 0 V)
- Mains connector (3-pole) and mains fuse
- Input 1: 1 V, XLR female connector
- Input 1: 100 V, 2-pin phoenix connector
- Line output 1: 1 V, XLR male connector
- Mode selection switch: Dual or Bridge

- Line output 2: 1 V, XLR male connector
- Input 2: 100 V, 2-pin phoenix connector
- Input 2: 1 V, XLR female connector
- Bridge output: 0 / 8 ohm
- Output 1: 5-pin screw type phoenix connector (100 V / 70 V / 0 V / 4 ohm / 0 V)
- Power switch

## 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	PLE-2P480-IN Class-D Power Amplifier, 2x480W
1	Power cord
1	Set of mounting brackets
1	100 V Slave input connector (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)	25 A

#### Performance

Power consumption (VA) (maximum)	1400 VA
Rated output (RMS) - Dual mode	480 W x 2
Rated output (RMS) - Bridge mode	960 W x 1 (8 Ω)

Frequency response (Hz) (+1 dB / -3 dB)	70 Hz – 20,000 Hz @ -10 dB of rated output
Total harmonic distortion + noise (%)	< 4%
Minimum signal-to-noise ratio (dB)	> 80 dB

### Inputs and outputs

#### Line inputs 1 and 2

Connector type	3-pin female XLR
Sensitivity (V)	1 V
Input impedance (kΩ)	> 100 kΩ
Common-mode rejection ratio (CMRR) (dB)	> 60 dB
Gain (dB)	40 dB

#### 100 V inputs 1 and 2

Connector type	Phoenix connector (1x2)
Sensitivity (V)	100 V
Input impedance (kΩ)	> 200 kΩ

#### Line outputs 1 and 2

Connector type	3-pin male XLR
Nominal capacity (V)	1 V
Input impedance (Ω)	100 Ω

#### Loudspeaker outputs 1 and 2

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

#### Loudspeaker outputs 8 Ω

Connector type	Phoenix connector (1x2)
Direct output	8 Ω

### Mechanical

Dimensions (H x W x D) (mm)	88 mm x 430 mm x 380 mm
Weight (kg)	22 kg

Color (RAL)	RAL 9017 Traffic black
Mounting type	Rack-mounted
Rack unit (U)	2 U

### Environmental

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

### Ordering information

#### PLE-2P480-IN Class-D Power Amplifier, 2x480W

Plena Class-D power amplifier, 2x480 W.

Order number **PLE-2P480-IN | F.01U.433.915**



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