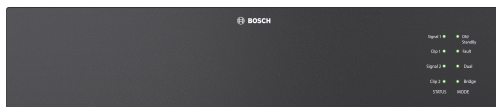


PLE-2P480-IN Class-D Power Amplifier, 2x480W



- ▶ 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)

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

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 (k Ω)	> 100 k Ω
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 (k Ω)	> 200 k Ω

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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