

Plena Easy PLE - 1ME Mixer Amplifiers



BOSCH

Easy To Install & Use



- PLE-1ME 060-US
- PLE-1ME 120-US
- PLE-1ME 240-US
- 4 microphone / line inputs, plus music source input
- Announcement only output, 3-wire volume override
- Wide range of output power (60, 120 and 240 Watts)
- 2-tone chime

About PLE-1ME Mixer Amplifiers

Plena Economy Mixer Amplifiers are professional public address units with modern state-of-the-art features. They are easy to use, taking the complexity away from the user and putting it where it belongs, inside the equipment. Providing a crisp call or clear music is as easy as turning on the radio. Offering the essentials of public address in an affordable package.

Features & Benefits

All Mic/line inputs can be switched between microphone level and line level sensitivity. The inputs are balanced but can be used unbalanced. Phantom power can be switched on to provide power to condenser microphones. Input channel 1 can take priority over all other microphone and music inputs:

- Input 1 can be activated by contact closure on the PTT (push to talk). A 2-tone chime can be configured to precede an announcement.



Label making software is shipped with each unit to easily make user definable labels for the inputs.

Preferred settings indicator – silver and red pins or hardware limiters to make sure music or speech is not too loud, or controls accidentally changed.

Built-In Standard Headphone Output
- LED Meter - Headphone jack allows system test prior to speaker hook up.



Markets for Plena Easy Line

Restaurants
Offices
Warehouses
K-12 Schools
Shops ~ Big box, Retail, Boutique
Gas Stations
Government ~ Military, DMV, Public Offices

Power

The mixer amplifiers come in 60, 120 and 240 Watt output power. This power is directly available on 70 V constant voltage connections and on a low impedance connection for a 4 ohm load.

Moreover, the amplifiers have a separate 70 V call-only output channel for addressing areas where only priority announcements are required. The call-only output can also be used for 3-wire remote, volume control override.



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Output status

An LED VU meter monitors the master output. A headphone socket, below the VU meter, provides the mixer output. For total reliability and ease of use, a limiter is integrated into the output stage to restrict output if the user applies too much signal.

Controls and indicators

Front

- On/off switch
- Power on LED
- LED VU meter for master output (LEDs for -18, -12 -6, -3, 0 dB)
- Master volume knob
- Four volume knobs for microphone inputs
- Volume knob for background music
- Knob for treble level
- Knob for bass level
- Headphone socket

Back

- Dip switches

Certifications and Approvals

Safety	acc. to EN 60065
EMC emission	acc. to EN 55103-1
EMC immunity	acc. to EN 55103-2

Parts Included

Quantity	Components
1	PLE-1MExx0-xx Plena Mixer Amplifier
1	Power cord
1	Manual
1	Plena Easy Line CD

Technical Specifications

Electrical

Mains power supply

Voltage -EU versions	230 VAC $\pm 10\%$, 50/60 Hz (reduced power at lower mains voltage)
Voltage -CN versions	220 VAC $\pm 10\%$, 50/60 Hz (reduced power at lower mains voltage)
Voltage -US versions	120 VAC $\pm 10\%$, 50/60 Hz (reduced power at lower mains voltage)
Inrush current PLE-1ME060-EU or -CN	5 A
Inrush current PLE-1ME120-EU or -CN	Mains power supply
Inrush current PLE-1ME240-EU or -CN	12 A
Inrush current PLE-1ME060-US	10 A
Inrush current PLE-1ME120-US	20 A
Inrush current PLE-1ME240-US	24 A

Power consumption

PLE-1ME060-xx	200 VA
PLE-1ME120-xx	400 VA
PLE-1ME240-xx	800 VA

Performance

Frequency response (Line)	60 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)
Frequency response (Mic.)	70 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)
Distortion	<1% @ rated output power, 1 kHz
Bass Control	Max. ± 8 dB
Treble Control	Max. ± 8 dB

Mic./Line input

	4 x
Input 1 (push-to-talk contact with priority)	5-pin Euro style, balanced, phantom
Input 2 3-pin	Euro style, balanced, phantom
Input 3 and 4	TRS Jack (1/4, 6.3mm) balanced
Sensitivity	1 mV (mic.); 300 mV (line)
Impedance	>1 kohm (mic.); >5 kohm (line)
Dynamic range	93 dB
S/N (flat at max volume)	>63 dB (mic.); >70 dB (line)
S/N (flat at min volume/muted)	>75 dB
CMRR (mic.)	>40 dB (50 Hz to 20 kHz)
Headroom	>25 dB
Speech filter	-3 dB @ 315 Hz, high-pass, 6 dB/oct
Phantom power supply	16 V via 1.2 kohm (mic.)

Music input

Connector	Cinch, stereo converted to mono
Sensitivity	200 mV
Impedance	22 kohm
S/N (flat at max volume)	>75 dB
S/N (flat at min volume/muted)	>80 dB
Headroom	>25 dB

Loudspeaker output

Connector	Screw terminal, floating
Max / rated PLE-1ME060-xx	90 W / 60 W
Max / rated PLE-1ME120-xx	180 W / 120 W
Max / rated PLE-1ME240-xx	360 W / 240 W

Loudspeaker output 4 ohm

Connector	Screw terminal, floating
PLE-1ME060-xx	15.5 V (60 W)
PLE-1ME120-xx	22 V (120 W)
PLE-1ME240-xx	31 V (240 W)

Mechanical

Dimensions (H x W x D)	100 x 430 x 270 mm (19" wide, 2U high)
Mounting	Stand-alone, 19" rack
Color	Charcoal

Weight

PLE-1ME060-xx	Approx. 6.5 kg
PLE-1ME120-xx	Approx. 8.9 kg
PLE-1ME240-xx	Approx. 10.5 kg

Environmental

Operating temperature	-10 °C to +45 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	<95%
Acoustic noise level of fan (PLE-1ME240-xx)	<48 dB SPL @ 1 m

**BOSCH**

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