PLE-1Pxx0-US Plena Amplifier

www.boschsecurity.com





Hot-Line: +8801906-042261

The PLE-1P120-US and PLE-1P240-US are two high-power plug-and-play cost effective power amplifiers that deliver 120 and 240 Watts to constant voltage or 4 ohm loads. Built with premium quality and protections, they offer basic functionality at a budget price. The amplifiers offer straight 1 V and 70 V line in, and 25/70 V and 4 ohm outputs. They can extend the power of the PLE- series mixer-amplifiers or be combined with the PLE-10M2-US mixer, or work anywhere where more power on an existing 70 V line is needed or when a line level signal is provided.

Functions

Protection

The amplifier is protected against overload and short circuits. A limiter protects the amplifier and loudspeaker against accidental overdriving. A temperature-controlled fan ensures proper cooling without producing acoustic noise at lower output levels.

Power input and output

The unit operates both on mains power and on a 24 V battery power supply for emergency backup, with automatic switchover. The amplifier also has a built-in charger to charge the connected battery. The system has a balanced input and loop-through facility. This makes it easy to connect multiple amplifiers. The

- ▶ 120 and 240 W power amplifier in a compact housing
- 1 V line level balanced input
- ▶ 70 V, 25 V and 4 ohm outputs
- ▶ 70 V input for slave operation on 70 V speaker line
- ► Temperature-controlled forced front to back ventilation (directly stackable)

secondary input is a 70 V line input to connect the amplifier to a 25/70 V loudspeaker line to provide more power in remote locations.

Gain or level control is located on the rear of the unit to avoid accidental setting change. An LED VU meter shows the output level.

The amplifier has 25 and 70 V outputs for constant voltage loudspeaker systems, and a low impedance output for 4 ohm loudspeaker loads.

Controls and indicators Front

- Power on LED
- LED VU meter for master output (LEDs for -18, -12 -6, -3, 0 dB)
- On/off button

Rack

Level control

Interconnections

See Technical Specifications.

Certifications and approvals EMC emission acc. to EN 55103-1 EMC immunity acc. to EN 55103-2



Asa Technology:

Installation/configuration notes



Rear view

Tacks	م امما	maaifi	cations
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Electrical

Mains power supply		
Voltage	115 - 230 VAC ±10%, 50/60 Hz	
Inrush Current PLE-1P120-US	4.5/9 A (230/115 VAC)	
Inrush Current PLE-1P240-US	9/18 A (230/115 VAC)	
Power consumption PLE-1P120-US	380 VA	
Power consumption PLE-1P240-US	760 VA	
Battery power supply		
Malta	041/00 450/	

Battery power supply		
Voltage	24 VDC ±15%	
Current PLE-1P120-US	5.5 A	
Current PLE-1P240-US	11 A	
Charge current	0.5 ADC	
Charge float voltage	27.3 VDC	

Power consumption (PLE-1P120-US)		
Max power (mains)	227 W	
-6dB (mains)	130 W	
Idle (mains)	12 W	
Max power (24 V)	7 A (150 W)	
-6 dB (24 V)	4.4 A (194 W)	
Idle (24 V)	0.3 A (7 W)	

Idle (24 V)	0.3 A (7 W)	
Power consumption (PLE-1P240-US)		
Max power (mains)	451 W	
-6dB (mains)	244 W	
Idle (mains)	16 W	
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Max power (24 V)	12 A (29	12 A (290 W)	
-6 dB (24 V)	8.1 A (19	8.1 A (194 W)	
Idle (24 V)	0.3 A (7 '	0.3 A (7 W)	
Performance			
Max / rated power PLE-1P120-US	180 W /	180 W / 120 W	
Max / rated power PLE-1P240-US	360 W / 2	360 W / 240 W	
Power reduction on backup power	-1 dB	-1 dB	
Frequency response		50 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)	
Distortion	<1% @ ra 1 kHz	<1% @ rated output power, 1 kHz	
Inputs			
Connector 1	3-pin Eu	3-pin Euro style, balanced	
Sensitivity	1 V	1 V	
Impedance	20 kohm	20 kohm	
Connector 2	3-pin Eu	3-pin Euro style, balanced	
Sensitivity	70 V	70 V	
Impedance	300 kohr	300 kohm	
Dynamic range	100 dB	100 dB	
CMRR (mic)	>40 dB (>40 dB (50 Hz to 20 kHz)	
Loudspeaker outputs 25 V and 70 V			
Connector	Euro style terminals	e pluggable screw	
Loudspeaker output 4 ohm			
Connector		Euro style pluggable screw terminals	
PLE-1P120-US	31 V (12	0 W)	
PLE-1P240-US	44 V (24	44 V (240 W)	
Mechanical			
Dimensions (H x W x D)		00 x 430 x 270 mm 9" wide, 2U high)	
Mounting	Stand-alone,	tand-alone, 19" rack	

Charcoal

Approx. 23.2 lb

Approx. 27.6 lb



Asa Technology:

Color

Weight (PLE-1P120-US)

Weight (PLE-1P240-US)

3 | PLE-1Pxx0-US Plena Amplifier

Environmental

Operating temperature	+14 °F to +131 °F
Storage temperature	-40 °F to +158 °F
Relative humidity	<95%
Acoustic noise level of fan	<40 dB SPL @ 1 m temperature controlled

Ordering information

Power amplifier, 120W 120 W

Order number PLE-1P120-US

Power amplifier, 240W

240 W

Order number PLE-1P240-US

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