

# PL150, PL300, and PL450 induction loop amplifiers

## specifications:

# PL150

# PL300

# PL450

## induction loop amplifiers

## description

The PL150, PL300, and PL450 form the professional range of induction loop amplifiers and are designed to enhance speech understanding for the hearing-impaired audience.

The amplifiers have three balanced inputs on XLR; two dedicated microphones and one microphone or line selectable using a rear panel switch. User selectable phantom powering is available for the microphone inputs, enabled via a rear panel switch. The inputs are individually mixed before passing to the compressor limiter, which prevents loop overload while compensating for varying microphone usage.

All controls are recessed to prevent unauthorised access. Indication is provided for compression level, output current, loop status, and power supply. A loop current monitor socket is provided to allow headphones to be used to monitor the actual loop current. An audio output (post compressor) is provided for recording, with a slave audio in to allow cascading. A loop OK voltage is available to illuminate a sign showing correct loop operation. The units are all 1u (44.5mm) high and a 19" rack mounting kit is available.

## application

The PL amplifiers can be used in many different environments: churches, residential homes for the elderly, auditoriums, conference centers, and theatres.

## coverage

Up to 800m<sup>2</sup> (8656 feet<sup>2</sup>)



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## PL150, PL300, and PL450 specifications

<b>inputs</b>	
audio inputs	2 microphone 1 mic/line selectable
type	XLR
phantom	Selectable, 12V 5mA
sensitivity	-50dB Microphone -10dB Line
<b>mains input</b>	
voltage	230V ~ 50/60 Hz
power	PL150: 100VA Max PL300: 180VA Max PL450: 300VA Max
internal fuse	PL150: 2 off 3.15A(F) PL300: 2 off 5A(F) PL450: 2 off 6.3A(F)
plug top fuse	5A
fuse for spur	5A
<b>indication</b>	
LED indicators	4 gain reduction 5 loop current Power Loop integrity Protection operating
<b>controls</b>	
user controls	3 input mixers and current drive
protection	Recessed screwdriver adjust only
<b>audio processing</b>	
compressor	10mS
attack	10mS
release	Automatic from 500mS to 1500mS
dynamic range	>60dB
THD	<0.25%

<b>output stage</b>	
type	Current Mode
loop impedance	0.1Ohm to 10hm
peak current	PL150: >9A peak PL300: >12A peak PL450: >15A peak
125mS burst	PL150: >6A peak PL300: >8A peak PL450: >10A peak
RMS current (@ 1KHz)	PL150: 2A PL300: 3A PL450: 4A
protection	DC Thermal Short circuit Soft start
<b>coverage</b>	
square area	PL150: 150m <sup>2</sup> PL300: 300m <sup>2</sup> PL450: 450m <sup>2</sup>
maximum area	PL150: 200m <sup>2</sup> PL300: 450m <sup>2</sup> PL450: 800m <sup>2</sup>
<b>dimensions</b>	
extends height	44.5mm
width	432mm (free standing) 485mm (with rack kit)
depth	165mm

## accessories



PL Phase  
(for reduced spill over)



PLRM  
19" rack mounting bracket  
allowing easy installation  
into standard 19" cabinets

Your local dealer:

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