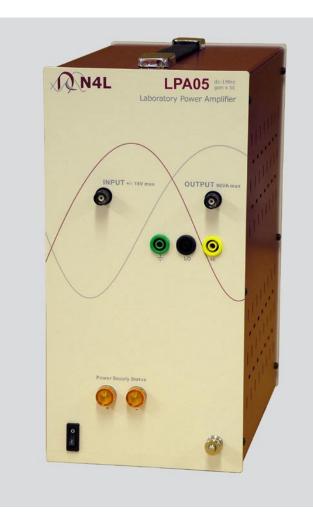
Laboratory power amplifier LPA05



Features:

- DC and AC wide bandwidth
- Switch selectable coupling options: AC, AC+DC or AC with reduced DC
- Fixed x10 Gain
- Switch selectable bandwidth
- High slew rate
- Isolated BNC or 4mm output sockets
- ± 20V peak, 3A rms @ 1MHz (LPA05A)
- ± 16V peak, 5A rms @ 1MHz (LPA05B)
- ± 40V peak, 3A rms @500kHz (LPA05A)
- Unconditionally stable into any load
- Isolated from ground to prevent earth loops
- Robust metal enclosure

LPA05A & LPA05B provide wide bandwidth signal amplification at up to 8A peak, extending the range of industrial and laboratory applications into which the LPA series can be used.

LPA05: High frequency, high current testing of very low impedance loads

-Also in the LPA range -

- LPA01: High frequency, testing of low impedance loads at up to 1Apk e.g. wound components
- LPA400: High voltage, high frequency testing and calibration Driving high voltage actuators (e.g. piezo) up to ± 400V



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The LPA range of power amplifiers from N4L are robust and reliable for use in a variety of industrial and laboratory applications. Designed originally for use with the PSM* range Phase Sensitive Multimeters, they can also be used anywhere where there is a need to boost a signal either in voltage or current.

They combine dc accuracy with wide bandwidth to faithfully reproduce complex waveforms, driving loads that may be capacitive, inductive or resistive.

Optionally, the dc component can be eliminated with ac coupling, or can be reduced with ac+(dc) coupling. To limit high frequency noise, the input bandwidth can be reduced with a linear phase, 2^{nd} order, low pass filter for low frequency applications.

Parameter	LPA05A	LPA05B
Output Voltage	40V pk-pk (14Vrms) @ 1MHz	32V pk-pk (11Vrms) @1MHz
	80V pk-pk (28Vrms) @ 500kHz	
Max ac output current	3A rms	5A rms
	5A pk	8A pk
Max dc output current	2A	4A
Input connector	isolated BNC	
Input impedance	10kΩ	
Peak input voltage	±4V	
Input common mode range	±40V	
Input offset voltage	5mV	(max)
		(typ)
Input coupling	ac, ac+do	c, ac+(dc)
AC coupling filter –3dB	16	iHz
(dc) gain factor	0	.1
Low B/W filter attenuation	40 dB/decade linear phase	
Low B/W filter type		
Gain	X	10
Slew rate	120	V/us
Output connector	isolated BNC + 4m	m safety connectors
Output power	90	VA
Operating temperature range	0 - 4	0°C
Size	30 x 15	x 25 cm
Weight	8 kg (approx)	
Power source	90-265V 45-63Hz	
Power consumption	150 VA	

Specifications:

* The PSM range includes the PSM1700, PSM1735, PSM2200 and PSM2201 that incorporate gain/phase analysis, LCR meter, phase angle voltmeter, wideband true rms meter, Power analyser, harmonic analyser and more.

The LPA range is designed & manufactured in the UK by Newtons4th Ltd.