

LAB 300 Specification

MAX OUTPUT POWER 1)	FTC 20 Hz-20 kHz at 0.1% THD	EIA 1 kHz at Clip (1% THD)	IHF Peak Power 20 ms burst	Calculated 2) Peak Power
8 Ω stereo	90 W	100 W	150 W	125 W
4 Ω stereo	130 W	150 W	225 W	250 W
2 Ω stereo 3)	140 W	160 W	250 W	500 W
8 Ω bridged	260 W	300 W	450 W	500 W
4 Ω bridged 3)	280 W	320 W	500 W	900 W

SPEAKER PROTECTION

Each channel is fuse protected on the positive and negative power supply rails. Electronic short-circuit protection with a progressive characteristic. The output power is progressively reduced at impedances below 1.3 ohms. The power amplifier can be run into short-circuits for a long time without damage, and is open circuit and mismatch proof.

DISTORTION

THD 20 Hz-20 kHz and 1 W-100 W	4 ohms	0.08 %
THD at 1kHz and 150W	4 ohms	0.03 %
DIM 30 at 50 W	4 ohms	0.02 %
CCIF (13 and 14 kHz) at 50 W	4 ohms	0.02 %
SMPTE (60 Hz and 7 kHz) at 50 W	4 ohms	0.05 %

POWER BANDWIDTH

Slew rate	12 Hz-50 kHz 25 V/ μ s
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OUTPUT IMPEDANCE

1 kHz	0.03 ohm
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HUM AND NOISE below max power

<- 105 dBA

CHANNEL SEPARATION

1 kHz	90 dB
10 kHz	75 dB

PHASE AND DELAY

Deviation from perfect delay 150 Hz-20 kHz	$\pm 2^\circ$
Total delay input to output at 4 ohms	3.8 μ s

INPUTS

Sensitivity, switchable for full output into 4 ohms	0.775 or 1.73 Vrms
Gain, switchable	30 dB or 23 dB
Impedance	20 kohms, balanced
Common mode rejection at 1 kHz	50 dB

FRONT PANEL

Gain controls	(2) Channel A - B
Clip indicator	Fast peak - slow release
Protect indicator	90 degreeC at heatzink or below 180VAC or > 20 kHz at full power
Signal present	-25dB at input
On indicator	DC rail voltage for channel A and B

REAR PANEL

Input connectors	(2) XLR type 3 pin female (pin 2+), and (2) 1/4" jack
Output connectors	(2) Neutric 4-pole speakon connectors (pin 1+ output)
Switches:	
Gain	30 dB or 23 dB
Link	Tandem mono, channel A and B
Polarity B	Reverse polarity of channel B
Clip Limiter	On-Off

POWER

Operation voltage	180 V - 240 V AC
Full output power	230 V AC
Peak inrush current	50A

OVERALL DIMENSIONS

mm (inch)	483 (19") W \times 44 (1.75") H \times 280 (11") D
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WEIGHT

7.7 kg (17 lbs)

APPROVALS

CE	Emission EN 55 103-1, E3 Immunity EN 55 103-2, E3, with S/N below 1% at normal operation level ⁴⁾ Safety EN 60 065, class I
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1) Specifications measured with 230 V regulated AC

2) Calculated by using peak voltage and nominal speaker impedance

3) Though the LAB 500 can drive a 2 ohms load, we recommend you to keep the load impedance on 4 ohms or above in professional applications, which demand large amounts of continuous power.

4) Normal operation level 1/8 of full power or -9dB below clip point.

LAB. GRUPPEN reserve the right to alter functions or specifications without prior notice.

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