

LAB 500 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	175 W	180 W	220 W	250 W
4 Ω stereo	260 W	290 W	380 W	440 W
2 Ω stereo 3)	290 W	320 W	520 W	700 W
8 Ω bridged	560 W	600 W	760 W	880 W
4 Ω bridged 3)	620 W	640 W	1040 W	1400 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 1.7 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-240 W	4 ohms	0.08 %
THD at 1kHz and 275W	4 ohms	0.03 %
DIM 30 at 150 W	4 ohms	0.02 %
CCIF (13 and 14 kHz) at 100 W	4 ohms	0.02 %
SMPTE (60 Hz and 7 kHz) at 150 W	4 ohms	0.05 %

POWER BANDWIDTH

Slew rate 10 Hz-50 kHz
40 V/μs

OUTPUT IMPEDANCE

1 kHz 0.07 ohm

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 ± 2°
Total delay input to output at 4 ohms 4.1 μs

INPUTS

Sensitivity, switchable for full output into 4 ohms 0.775 or 1.3 Vrms
Gain, switchable 32 dB or 29 dB
Impedance 20 kohms, balanced
Common mode rejection at 1 kHz 50 dB

FRONT PANEL

Gain controls (2) Channel A - B
Output display (2) red + (10) green LED's Fast peak - slow release
Temp indicator (2) yellow LED's 80 °C at heatzink
VHF indicator (2) yellow LED's > 20 kHz at full power
On indicator (2) green LED's 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 32 dB or 29 dB
Link Tandem mono, channel A and B
Polarity B Reverse polarity of channel B

POWER

Operation voltage 120 V - 260 V AC
Full output power 230 V AC
Peak inrush current 83A

OVERALL DIMENSIONS

mm (inch) 483 (19") W
× 88 (3.5") H
× 265 (10.5") D

WEIGHT

11 kg (24 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
LAB 500t THX version:

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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