

LAB 1600 Specification

MAX. OUTPUT POWER ¹⁾	MLS Switch	FTC 20 Hz-20 kHz at 0.1% THD	EIA 1 kHz at Cliplevel	IHF Peak Power 20 ms burst
8Ω stereo	4	410 W	430 W	440 W
4Ω stereo	4	780 W	840 W	850 W
2Ω stereo ²⁾	4	1440 W	1540 W	1590 W
2Ω stereo	2	780 W	870 W	930 W
8Ω bridged	4	1560 W	1680 W	1700 W
4Ω bridged	2	1560 W	1740 W	1860W
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 turned off at shorted output. The output power is turned off at shorted output. 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-750 W		4 ohms		0.07 %
THD at 1kHz and 750W		4 ohms		0.01 %
DIM 30 at 400 W		4 ohms		0.008 %
CCIF (13 and 14 kHz) at 200 W		4 ohms		0.008 %
SMPTE (60 Hz and 7 kHz) at 400 W		4 ohms		0.01 %
POWER BANDWIDTH ³⁾				
Slew rate				5 Hz-110 kHz 60 V/μs
OUTPUT IMPEDANCE				
		1 kHz		0.03 ohm
HUM AND NOISE below max power				
				<- 105 dBA
CHANNEL SEPARATION				
		1 kHz		80 dB
		10 kHz		70 dB
PHASE AND DELAY				
Deviation from perfect delay		150 Hz-20 kHz		± 1°
Total delay input to output at 4 ohms				3,5 μs
INPUTS				
Sensitivity, switchable for full output into 4 ohms				0.775 or 1,8 Vrms
Gain, switchable				37,5 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
Protect indicator		(2) yellow LED's		> 10 kHz at full power or shorted output
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				37,5 dB or 29 dB
Link				Tandem mono, channel A and B
Rev B				Phase reverse of channel B
Clip limiter A and B				On - Off
MLS				2 or 4 ohms
POWER				
Operation voltage				Option
Minimum start voltage		120 V - 270 V AC		65 V-135 V AC
Full output power		190 V AC		95 V AC
Peak inrush current		180 V -260 V AC		90 V-130 V AC
OVERALL DIMENSIONS				
mm (inch)				4.5A
				483 (19") W
				× 88 (3.5") H
				× 300 (11,8") D
				8 kg (18 lbs)
WEIGHT				
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
		THX version:		LAB 1600t

1) Specifications measured with 230 V regulated AC
2) Continuous power, one channel driven or peak power both channels driven. (Thermal protection may occur at high continuous power).

3) The VHF-protection turns off the channel for frequencies above 20 kHz at full power.

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

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

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