

# LAB 2000C Specifications

## MAX OUTPUT POWER,<sup>1)</sup> [watts]

	<i>FTC</i> 20 Hz–20 kHz at 0.1% THD	<i>EIA</i> 1 kHz at cliplevel	<i>IHF</i> <sup>3)</sup> peak power 20 ms burst	<i>Calculated</i> <sup>2), 3)</sup> peak power
8 ohms stereo	900	1000	1050	1100
4 ohms stereo	1000	1100	1570	1800
2 ohms stereo	1000	1200	1600	3400
1.5 ohms stereo	1000	1000	1400	3750
16 ohms bridged	1800	2000	2100	2200
8 ohms bridged	2000	2200	3200	3600
4 ohms bridged	2000	2400	3300	6800
3 ohms bridged	2000	2000	2800	7500

## SPEAKER PROTECTION

Each channel is separately fused on the negative and positive power supply rails. Electronic short-circuit protection with progressive characteristic, allowing operation down to 1.3 ohms. The power amplifier can be driven 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–1000 W 4 ohms	0.08%
THD at 1 kHz and 1100 W 4 ohms	0.03%
DIM 30 at 500 W 4 ohms	0.02%
CCIF (13 and 14 kHz) at 500 W 4 ohms	0.03%
SMPTE (60 Hz and 7 kHz) at 500 W 4 ohms	0.08%

## POWER BANDWIDTH

10 Hz–20 kHz
Slew rate 20 V/ $\mu$ s

## OUTPUT IMPEDANCE

1 kHz	0.06 ohms
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## HUM AND NOISE

Below max power	< -105 dBA
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## CHANNEL SEPARATION

1 kHz	>90 dB
10 kHz	>80 dB

## PHASE AND DELAY

Deviation from perfect delay 150 Hz–20 kHz	$\pm 2^\circ$
Total delay input to output	19 $\mu$ s

## INPUTS

Sensitivity, switchable for full output into 4 ohms	0.775 or 2.2 V <sub>rms</sub>
Gain, switchable	38 dB or 29 dB
Impedance	20 kohms balanced
Common Mode Rejection at 1 kHz	70 dB
4-pole Antialiasing filter	24 dB/oct 22 kHz, Bessel type

## 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 90°C at heatzink
VHF indicator	(2) yellow LED's >10 kHz at full power
On indicator	(2) green LED's DC rail voltage for channel A/B respectively

## 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	38 dB or 29 dB
Link	Tandem mono, channel A+B
Rev B	Phase reverse of channel B
Minimum Load Select	8, 4, 2, and 1.5 ohms
Clip limiter	On-Off

## POWER

Operation voltage	130 V–270 V AC	Option
Minimum start voltage	190 V AC	65 V–135 V AC
Full output power	180 V–260 V AC	95 V AC
		90–130 V AC

## OVERALL DIMENSIONS

mm (inch)	483 (19") W × 88 (3.5") H × 347 (13.7") D
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## WEIGHT

10 kg (22.1 lbs)
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1) Specifications measured with 220 V regulated AC, and MLS-switches in corresponding positions.

2) Calculated by using peak-voltage and nominal speaker impedance.

3) MLS-switches in the 8 ohms position.