

mbl C51 Integrated Amplifier

General

Weight	23 kg / 50.7 lbs
Dimensions (without cables)	W 45,0 cm / D 44,5 cm / H 14,5 cm W 17.7 in / D 17.5 in / H 5.7 in
Dimensions with packaging	W 59,0 cm / D 54,0 cm / H 35,5 cm W 23.2 in / D 21.3 in / H 21.9 in
Line Voltage	230 Vac / 50 Hz or 115 Vac / 50/60 Hz (single voltage, factory setting depending on country)
Power consumption	
in stand by	< 0.5 VA
in idle	< 70 VA
Maximum	< 1000 VA (w. 2 x 300 W @ 4 Ohm)

Connections

Inputs

RCA unbalanced	2 x MBL CD1 / CD2 2 x Tuner AUX1 / AUX2 1 x Processor By-Pass
XLR balanced (unity gain)	1 x Symmetrical
Options	1 x optional 2nd Symmetrical In (XLR) or 1 x optional Phono Module (RCA)

Outputs

RCA unbalanced	1 x Variable Out 1 x Fixed Record Out
Loudspeaker	1 x pair Loudspeaker Binding Posts
Other	Ground Terminal 2 x MBL SmartLink

Preamplifier Section

Output Level / Maximum Output

Variable unbalanced RCA Outputs	0 ... 5 V @ 2 V Input, max 1.7 V *1 (According to Volume Setting) *1: Input Voltage for Rated Power
Fixed Record Output	2 V @ 2 V Input, max. 8 V
Nominal / Maximum Input Level (All Inputs except Phono)	2 V / 8V (According to Volume Setting)
Absolute Polarity	In-Phase (RCA / XLR Pin2)
Frequency Range (All Inputs and Outputs except Phono)	DC - > 200 kHz

Output Impedance

All RCA Outputs 100 Ohm

Input Impedance

CD and Processor By-Pass Inputs ≥ 5 kOhm

AUX Inputs 50 kOhm

XLR Input 10 kOhm

Signal to Noise Ratio > 110 dB (A) @ 2 V Input, Volume set to 0 dB / unity gain
(All Inputs and Outputs except Phono)

Channel Separation > 100 dB @ 1 kHz
(All Inputs and Outputs except Phono)

Total Harmonic Distortion + Noise < 0.001 % @ 2V Input / 1kHz, Volume set to 0 dB / unity gain
(All Inputs and Outputs except Phono)

Power Amplifier Section

Rated Power

Stereo 4 Ohm 2 x 300 W

Stereo 8 Ohm 2 x 180 W

Stereo 2 Ohm 2 x 400 W

Peak Output Voltage 62 Vp

Peak Output Current 20 Ap

Input Sensitivity (RCA / XLR) 100 mV for 1 W @ 4 Ohm

Rated Input Voltage (RCA / XLR) 1.70 V for 300 W @ 4 Ohm

Voltage Gain 20 (26 dB)

Absolute Polarity In-Phase

Signal / Noise Ratio @ Rated Output 122 dB (A) @ 300 W / 4 Ohm

Signal / Noise Ratio @ 1 Watt 98 dB (A) @ 1 W / 4 Ohm

Equivalent Input Noise 124 dB (A) @ 2 V Input

Frequency Response < 10 Hz - 45 kHz

Distortion THD+N Typ. 0.01 % @ 3 W from 20 Hz ... 20 kHz

Damping Factor > 100 (40 dB) @ 1 kHz / 4 Ohm

Channel Separation > 90 dB @ 1 kHz