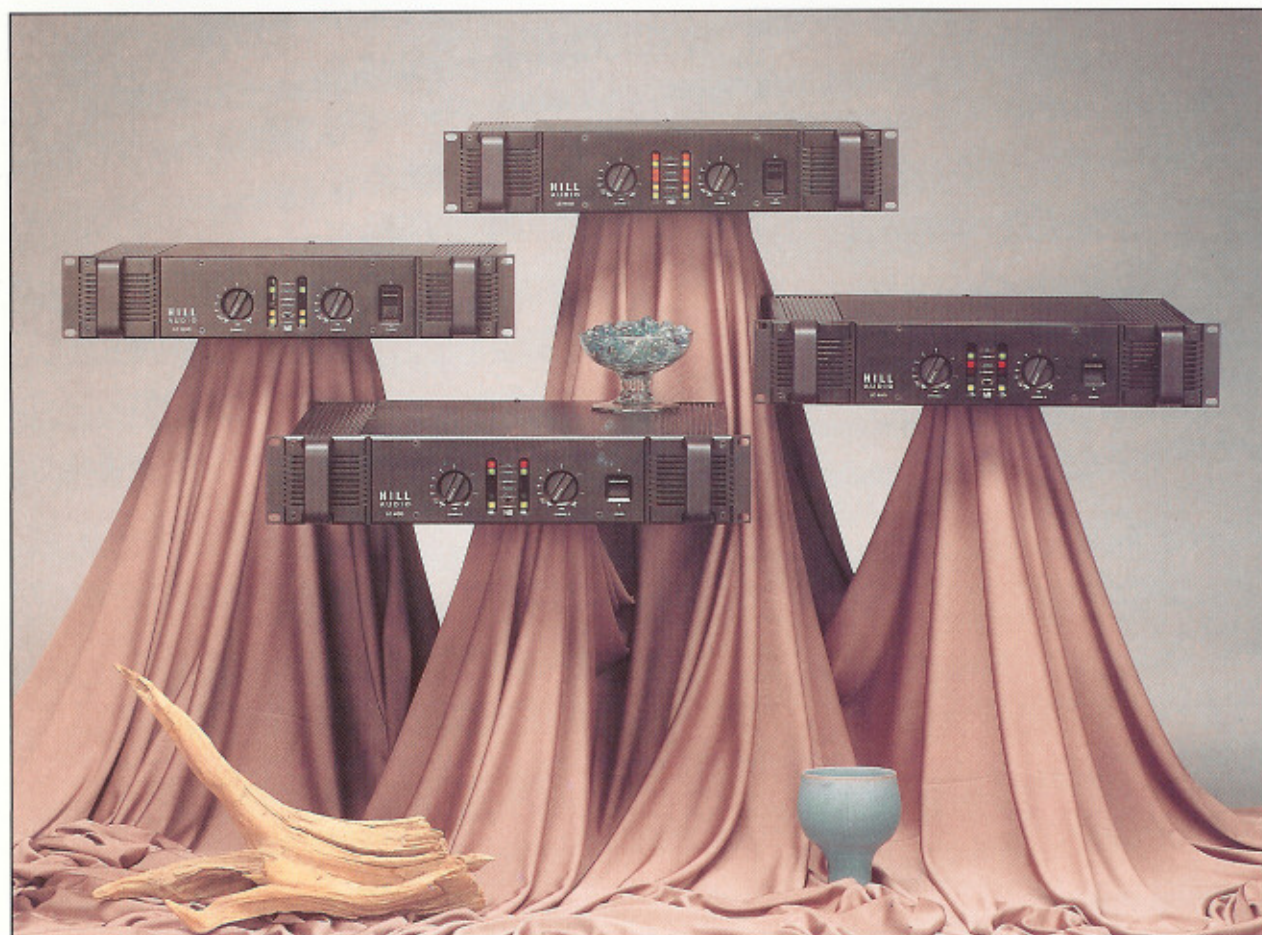


LC / ML AMPLIFIERS

HILL
AUDIO



LC SERIES

Hill Audio have been producing power amplifiers for over 15 years. As a result of the experience gained during this time and input from customers worldwide, we have been able to continually improve the quality of our products. Thus we have established our position worldwide as the largest UK manufacturer of professional power amplifiers. The qualities upon which this success has been built are audio transparency, reliability and technical excellence. The new LC and ML ranges represent our greatest achievement to date.

These amplifiers combine our acclaimed 'Super A' sliding bias configuration of bipolar amplifier design with radically new thinking on control and protection circuitry, and major improvements in layout and internal design. The result is a range of 2 unit amplifiers capable of producing up to 800w RMS per channel into 4Ω under any

conditions. There are no gimmicks, only high power produced reliability, continuously and transparently.

Servicing is aided by transistor banks that can be changed in minutes and by an internal layout that renders all components easily accessible. Ease of operation is enhanced by a comprehensive range of input and output connectors and by the provision of remote muting capability as standard.

The versatility of these amplifiers is increased by a range of options. These are all retro-fittable in minutes by an authorised service agent. They include VCA controlled remote attenuation, a limiting circuit to protect speakers against amplifier clipping, and the provision of octal sockets. These sockets can be used either for plug-in input balancing transformers or for other plug-in accessories including crossovers.

Reliability is further improved by the use of generously overspecified components throughout, allied to a unique 5-way protection system controlled by a central logic circuit and incorporating 2-speed fan cooling of tunnels of gain-matched high quality power transistors. This protection system guards against any failure of the amplifier or of ancillary equipment or leads whilst being independent of the signal path, thus preserving audio transparency. Speakers are further protected by a switch on and off muting circuit.

An elegant front panel provides comprehensive information on the status of the amplifier with indications of power on, bridged mode, signal present and peak, and both electrical and thermal protection modes.

The LC range consists of 4 stereo power amplifiers with output powers

of between 200 and 800w/4Ω per channel, all with the capability of being bridged. The complementary ML range provides for the installation market with 2 mono amplifiers each capable of providing power for both standard 4 or 8Ω operation or for 100v line applications. A further option is a 2 unit box to allow the LC1200 and 1600 to be used in 100v line applications thus providing up to 800w per channel into 100v line, within 4 rack units.

Please contact Hill Audio head office, or your nearest representative of our worldwide distribution network for further information, or to arrange for a demonstration of either LC or ML amplifiers.

LC
ML

400
200

800
400

1200

1600

HILL AUDIO

ML SERIES



ELECTRONIC SPECIFICATIONS

	LC400	LC800	LC1200	LC1600	ML200	ML400	Parameters
OUTPUT POWER (W RMS)							
8Ω per channel	120	250	350	500	120*	250*	RMS (20Hz - 20KHz)
4Ω per channel	200	400	600	800	200*	400*	*Mono power ratings
8Ω bridged mono	400	800	1200	1600			
DISTORTION (DIN)							
THD + N (1KHz)			< 0.01%				At rated power at 8Ω
(20Hz - 20KHz)			< 0.03%				(60Hz/7KHz 4:1)
IMD			< 0.01%				
CROSSTALK							
1KHz			< -80dB				Referred to full power at 8Ω
20Hz - 20KHz			< -80dB				
NOISE			< -100dB				20Hz - 20KHz, Referred to full power at 8Ω
SLEW RATE			> 40V/μ sec				
RISE TIME			3 μ sec				
DAMPING FACTOR			> 300				100Hz
FREQUENCY RESPONSE			+0/-0.5dB (20Hz - 20KHz)				Excluding output transformers in ML amplifiers
PULSE POWER							1KHz, 10ms/100ms, single channel
8Ω	240	500	700	1000	240	500	
4Ω	400	800	1200	1600	400	800	
SENSITIVITY			1.0V RMS				For rated output
INPUT IMPEDANCE			10k unbalanced, 20k balanced				Independent of input attenuator

PHYSICAL SPECIFICATIONS

	LC400	LC800	LC1200	LC1600	ML200	ML400	Parameters
SIZE							
Back Spaces (Units)			2				
Front to Back (Inches)			14.25				
WEIGHT KGS (LBS)	8 (17)	14 (30)	16 (35)	19 (41)	13 (28)	15 (33)	
NO OF FANS	1	2	2	2	1	1	2 Speed fans
NO OF DEVICES (TOTAL)	8	12	20	20	4	6	
FUSE REQUIREMENTS							20mm fuses
120V AC 60Hz	T6.3A	T12A	T16A	T20A	T6.3A	T12A	
240V AC 50Hz	T3.15A	T6.3A	T8A	T10A	T3.15A	T6.3A	

CONNECTORS - INPUT 2 x 1/4" Jack sockets, 1 x female XLR socket and 2 x screw terminals per channel
OUTPUT Binding posts, 50v - 0v - 50v 4mm sockets (ML amplifiers only)
REMOTE MUTING / ATTENUATION Screw terminals
AC IEC socket (except LC1600 - captive lead)
ACCESSORIES / BALANCING TRANSFORMERS Octal sockets (optional)

Hill Audio reserves the right to alter the design and specifications of its products without prior notice.

LC / ML AMPLIFIERS

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