

## CLh 5000 | CLh 6000C | CLh 2500 | CLh 3000C



### Description

The Crest Audio CLh<sup>™</sup> Series power amplifiers set a new standard for performance and efficiency for the contracting and installation market. CLh amplifiers feature an ultra-high efficiency amplifier output circuit that reduces weight while, increasing output power, reliability and thermal efficiency.

The Crest Audio CLh 5000 and CLh 2500 are ultra-high efficiency, servocontrolled, class-D power amplifiers that deliver high power through two channels to balanced outputs for the ultimate in common-mode noise cancellation

The Crest Audio CLh 6000C and 3000C provide the same high efficency high power but with Power Factor Corrections for world markets where PFC is required. The CLh 6000C and 3000C models operate on 230V/50 Hz power to drive 100V constant voltage systems.

The CLh Series includes Crest Audio's exclusive ACL<sup>™</sup> (Active Clip Limiting), which automatically reduces gain at the onset of clipping to prevent amplifier and load damage; over-current protection; DC voltage; channel active and temperature warning. Additional features include a lightweight switch-mode power-supply, remote turn-on, sequential turn-on, and a switchable, built-in low-cut filter.

### **Features**

- Ultra-high efficiency, servo-controlled, class-D power amplifiers that deliver high power through two channels
- CLh 5000 produces 2,500 watts per channel continuous at 70.7 volts
- CLh 2500 produces 1,250 watts per channel continuous at 70.7 volts
- CLh 6000C produces 3,745 watts per channel at 100 volts
- CLh 3000C produces 1,250 watts per channel at 100 volts
- Crest Audio's exclusive ACL<sup>™</sup> (Active Clip Limiting)
- Over-current protection
- DC voltage
- Channel Active and temperature warning
- Light-weight switch-mode power supply
- Remote turn-on
- Sequential turn-on
- · Switchable, built-in low-cut filter





# CLh<sup>™</sup> Series Amplifiers

	CLh <sup>™</sup> 2500	CLh <sup>™</sup> 5000	CLh <sup>™</sup> 3000C	CLh <sup>™</sup> 6000C
Rated watts 2 ch x 4 ohms	1985 watts / 81 volts with 20ms repetitive burst 1470 watts / 77 volts at 0.15% THD, both channels drive at 1kHz.	1985 watts / 89 volts with 20ms repetitive burst 1470 watts / 77 volts at 0.15% THD, both channels drive at 1kHz.	2100 watts / 92 volts with 20ms repetitive burst 1500 watts / 77 volts at 0.25% THD, both channels drive at 1kHz.	3745 watts / 100 volts with 20ms repetitive burst,3100 watts / 79 volts at 1% THD both channel driven @ 1kHz* (@2.67 ohms both channels drive at 1kHz.
Rated watts 2 ch x 8 ohms	1175 watts / 97 volts with 20ms repetitive burst 880 watts / 84 volts at 0.15% THD, both channels drive at 1kHz.	1175 watts / 97 volts with 20ms repetitive burst 880 watts / 84 volts at 0.15% THD, both channels drive at 1kHz.	1500 watts / 97 volts with 20ms repetitive burst 850 watts / 82 volts at 0.25% THD, both channels drive at 1kHz.	1250 watts / 100 volts with 20ms repetitive burst 1150 watts / 96 volts at 0.25% THD, both channels drive at 1kHz.
Minimum Load Impedance	4 ohms	2 ohms	4 ohms	2.67 ohms
Maxmium RMS Voltage Swing	105 volts	105 volts	114 volts	114 volts
Frequency Response	20Hz - 22kHz; +/-0.5dB at 1 watt	20Hz - 22kHz; +/-0.5dB at 1 watt	20Hz - 25kHz; +/-0dB, -3dB	20Hz - 25kHz; +/-0dB, -3dB
20Hz - 20kHz 2ch x 4 ohms	<0.15% @ 1400 watts 20Hz to 10kHz, decreasing to 1350 watts @ 20kHz, both channels driven	<0.15% @ 1400 watts 20Hz to 10kHz, decreasing to 1350 watts @ 20kHz, both channels driven	<0.2% @ 1400 watts 20Hz to 20kHz, both channels driven	<0.15% @ 1800 watts 20Hz to 20kHz, both channels driven
20Hz - 20kHz 2ch x 8 ohms	<0.15% @ 860 watts 20Hz to 4kHz, increasing to 1000 watts @ 20kHz, both channels driven	<0.15% @ 860watts 20Hz to 4kHz, increasing to 1000 watts @ 20kHz, both channels driven	<0.15% @ 800 watts 20Hz to 4kHz, both channels driven	<0.15% @ 1000 watts 20Hz to 4kHz, both channels driven
Input CMRR	> -75 dB at 1kHz	> -75 dB at 1kHz	> -75 dB at 1kHz	>-75 dB at 1kHz
Voltage Gain	x 40 (+32dB)	x 40 (+32dB)	x 40 (+32dB)	x 40 (+32dB)
Crosstalk	>-60dB @ 1kHz @ 700 watts power @ 8 ohms	>-60dB @ 1kHz @ 700 watts power @ 8 ohms	>-60dB @ 1kHz @ 1000 watts power @ 8 ohms	>-65dB @ 100Hz @ 1000 watts power @ 8 ohms
Hum and Noise	>-100dB, "A" weighted referenced to rated power @ 4 ohms	>-100dB, "A" weighted referenced to rated power @ 4 ohms	>-95dB, "A" weighted referenced to rated power @ 8 ohms	>-100dB, "A" weighted referenced to rated power @ 4 ohms
Slew Rate	>12V/µs	>12V/µs	>12V/µs	>12V/µs
Damping Factor (8 ohms)	>200:1 @ 20Hz - 1 kHz @ 8 ohms	>200:1 @ 20Hz - 1 kHz @ 8 ohms	>200:1 @ 20Hz - 1 kHz @ 8 ohms	>200:1 @ 20Hz - 1 kHz @ 8 ohms
Input Sensitivity	1.92 volts +/- 3% for 1 kHz 4 ohm rated power 2.1 volts +/- 3% for 1 kHz 8 ohm rated power	1.95 volts +/- 3% for 1 kHz 4 ohm rated power 1.83 volts +/- 3% for 1 kHz 8 ohm rated power	1.93 volts +/- 3% for 1 kHz 4 ohms rated power, 2.05 volts +/- 3% for 1 kHz 8 ohms rated power	1.98 volts +/- 3% for 1 kHz 2.67 ohms rated power, 2.23 volts +/- 3% for 1 kHz 4 ohms rated power
Input Impedance	20 kilohms balanced and 10 kilohms unbalanced	20 kilohms balanced and 10 kilohms unbalanced	20 kilohms balanced and 10 kilohms unbalanced	20 kilohms balanced and 10 kilohms unbalanced
Current Draw @ 1/8 in VA (watts)	920 (525) @ 4 ohms, 625 (335) @ 8 ohms	1435 (890) @ 2 ohms, 920 (525) @ 4 ohms 625 (335) @ 8 ohms	725 (555) @ 4 ohms, 310 (235) @ 8 ohms	1570 (1035) @ 2.67 ohms, 1220 (780) @ 4 ohms 930 (440) @ 8 ohms
Current Draw @ 1/3 in VA (watts)	1880 (1200) @ 4 ohms, 1200 (715) @ 8 ohms	3050 (2155) @ 2 ohms, 1880 (1200) @ 4 ohms 1200 (715) @ 8 ohms	1700 (1260) @ 4 ohms, 550 (420) @ 8 ohms	3450 (2465) @ 2.67 ohms, 2200 (1500) @ 4 ohms 1175 (740) @ 8 ohms
Idle Consumption:	195VA, 90 watts	195VA, 90 watts	155VA, 100 watts	205VA, 100 watts
Cooling	3 temperature dependent variable speed fans			
Controls	1 rear panel attenuator and select switch for 70Hz, high pass filter per channel			
Indicator LEDs	Five LED indicators per channel: Active, Signal, DDT, Temperature, and DC			
Protection	Thermal, DC, subsonic, incorrect loads, under and over voltage			
Connectors	3.81mm 12 position input, 5mm 4 position sequential, 10 gauge wire 4 postion output, IEC AC power			
Construction	0.0062" thick aluminum\			
Dimensions (HxWxD):	3.48" x 19.0" (front) x 20.30" / 88.39mm x 482.6mm x 515.62mm, 2EIA rack spaces; Mounting depth: 19.70" (500.38mm) behind front rack ears			
Net Weight:	14.1lbs / 6.4kg	14.1lbs/6.4kg	14.1lbs / 6.4kg	14.1lbs / 6.4kg

### **Architect's & Engineer's Specifications**

#### Crest Audio CLh<sup>™</sup> Power Amplifiers

The dual channel power amplifiers shall be available as two power levels in each of two power section configurations for domestic and international applications. Each power level shall be capable of low-impedance outputs at 4- and 8-ohms or direct drive constant voltage outputs at 70.7V and 100V.

The power amplifier sections shall be of a highly efficient and lightweight Class D amplifier design with a heavy duty power supply. The power amplifiers shall yield 1,470 watts per channel into 4-ohms or 77 volts for domestic applications. The power amplifiers shall yield 3,745 watts per channel into 2.67-ohms or 100 volts with power factor correction, or 1,250 watts per channel into 8-ohms or 100 volts with power factor correction, for international applications. The power amplifiers' frequency response at 1 watt shall be 20 Hz to 22 kHz.

Each power amplifier shall have rear mounted attenuators with removable knobs, power saving mode and provision for sequential turn-on. Inputs shall be via Euro-style connectors. Powered outputs shall be via touch-proof screw terminals. Each power amplifier shall be contained in a 2U steel chassis with rack mount hardware included.

The dual channel power amplifiers shall be the Crest Audio CLh 2500, CLh 5000, CLh 3000C and CLh 6000C power amplifiers.



Features and specifications subject to change without notice.

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