Pro-LITE[™] DSP Series ∞⊂RES

Lightweight Power Amplifiers

Pro-LITE 7.5 DSP | Pro-LITE 5.0 DSP | Pro-LITE 3.0 DSP | Pro-LITE 2.0 DSP



Description

Featuring an efficient design and built on the solid, three-decade legacy of Crest Audio amplifiers, the Pro-LITE[®] Series power amps provide high power and rock solid performance in an ultra-efficient lightweight package for all professional audio applications. The Crest Audio Pro-LITE amplifiers, are designed with an advanced, high-speed class D design, with a switch-mode power supply that reduces weight while increasing reliability, thermal efficiency and output power in parallel, stereo and bridged modes.

Features

- Pro-LITE DSP models include onboard Digital Signal Processing that provides ACL[™] protection
- Revolutionary Pro-LITE class D topology
- Detented input controls
- Combination XLR 1/4" inputs
- Combination 1/4" or 1/4" pole twist lock output connector
- Light weight; Individual signal pass-thru 1/4" jacks on each channel
- LED illuminated
- DSP-based Loudspeaker Management System
- 120 ms of delay per channel; 4 bands of parametric equalization per channel
- Security lock
- Adjustable fourth-order Linkwitz-Riley Crossover
- · Adjustable fourth-order high-pass filter each channel
- Setup Wizard
- MAXX Bass[®]
- Horn EQ each channel
- Blue, blacklit LCD screen





Pro-LITE[™] DSP Series Amplifiers

Specifications

| | Pro-LITE [™] 7.5 DSP | Pro-LITE [™] 5.0 DSP | Pro-LITE [™] 3.0 DSP | Pro-LITE [™] 2.0 DSP |
|--|--|---|--|---|
| Rated Watts 2ch x 2 ohms | 4780 watts 20ms repetitive burst / 3740 watts 1% THD both channels driven @ 1kHz | 3300 watts 20ms repetitive burst / 2600 watts 1% THD both channels driven @ 1kHz. | 1825 watts 20ms repetitive burst / 1480 watts 1% THD both channels driven @ 1kHz | 1100 watts 20ms repetitive burst / 900 watts 1% THD both channels driven @ 1kHz |
| Rated Watts 2ch x 4 ohms | 2810 watts 20ms repetitive burst / 2475 watts 1% THD / 2160 watts 0.2% THD, both channels driven @ 1kHz | 2025 watts 20ms repetitive burst / 1725 watts 1% THD / 1500 watts 0.2% THD, both channels driven @ 1kHz | 1025 watts 20ms repetitive burst / 925 watts 1% THD / 840 watts 0.2% THD, both channels driven @ 1kHz | 600 watts 20ms repetitive burst / 570 watts 1% THD / 530 watts 0.15% THD, both channels driven @ 1kHz |
| Rated Watts 2ch x 8 ohms | 1550 watts 20ms repetitive burst / 1475 watts 1% THD / 1270 watts 0.2% THD, both channels driven @ 1kHz | 1175 watts 20ms repetitive burst / 1000 watts 1% THD / 1270 watts 0.2% THD, both channels driven @ 1kHz | 1175 watts 20ms repetitive burst / 1000 watts 1% THD / 1270 watts 0.2% THD, both channels driven @ 1kHz | 370 watts 20ms repetitive burst / 325 watts 1% THD / 300 watts 0.15% THD, both channels driven @ 1kHz |
| Minimum Load Impedance | 2 ohms | 2 ohms | 2 ohms | 2 ohms |
| Maximum RMS Voltage Swing | 124 volts | 105 volts | 70 volts | 56 volts |
| Frequency Response | 20 Hz - 25 kHz; +0dB, -3dB | 20 Hz - 22kHz; +/- 0.5dB at 1 watt | 20 Hz - 22kHz; +/- 0.5dB @ 4 ohms | 10 Hz - 30kHz; +/- 3 dB at 1 watt, 8 ohms |
| 20Hz - 20kHz 2 ch x 2 ohms | <0.5% @ 3390 watts 20Hz to 4kHz, decreasing to 2000 watts @ 20kHz, both channels driven | <0.5% @ 3390 watts 20Hz to 4kHz, decreasing to 1650 watts @ 20kHz, both channels driven | <0.15% @ 1300 watts 20Hz to 3kHz, decreasing to 1000 watts @ 20kHz, both channels driven | <0.25% @ 800 watts 20Hz to 4kHz, decreasing to 760 watts @ 20kHz, both channels driven |
| 20Hz - 20kHz 2 ch x 4 ohms | <0.15% @ 2000 watts 20Hz to 20kHz, both channels driven | <0.15% @ 1400 watts 20Hz to 10kHz, decreasing to 1350 watts @ 20kHz, both channels driven | <0.15% @ 800 watts 20Hz to 20kHz, both channels driven | <0.15% @ 540 watts 20Hz to 20kHz, both channels driven |
| 20Hz - 20kHz 2 ch x 8 ohms | <0.15% @ 1150 watts 20Hz to 20kHz, both channels driven | <0.15% @ 800 watts 20Hz to 4kHz, both channels driven | <0.15% @ 420 watts 20Hz to 20kHz, both channels driven | <0.15% @ 300 watts 20Hz to 20kHz, both channels driven |
| Input CMRR | < -75 dB at 1kHz | < -75 dB at 1kHz | < -76 dB at 1kHz | < -69 dB at 1kHz |
| Voltage Gain | x 70 (+37 dB) | x 40 (+32.0 dB) | x 37.75 (+31.5 dB) | x 30 (+29.5 dB) |
| Crossover Hum and Noise | Adjustable High Pass and Low Pass filter per ch > - 96dB, "A" weighted reference to rated power @ 4 ohms | annel. Filter Types: 12dB/oct 2nd order, 18dB/oct > - 105dB, "A" weighted reference to rated power @ 4 ohms | 3rd order, 24dB/oct 4th order Butterworth and 24d > - 93dB, "A" weighted reference to rated power @ 4 ohms | iB/oct 4th order Linkwitz –Riley. > - 100dB, "A" weighted reference to rated power @ 4 ohms |
| Slew Rate Damping Factor (8 ohms) | > 12V/µs >200:1 @ 20 Hz - 1 kHz @ 8 ohms | > 12V/µs >210:1 @ 20 Hz - 1 kHz @ 8 ohms | > 12V/µs >255:1 @ 20 Hz - 1 kHz @ 8 ohms | > 12V/µs >170:1 @ 20 Hz - 1 kHz @ 8 ohms |
| Input Sensitivity | 1.340V +/- 3% for 1kHz 4 ohm rated power, 1.250V +/- 3% for 1kHz 2 ohm rated power | 1.95V +/- 3% for 1kHz 4 ohm rated power, 1.83V +/- 3% for 1kHz 2 ohm rated power | 1.54V +/- 3% for 1kHz 4 ohm rated power, 1.47V +/- 3% for 1kHz 2 ohm rated power | 1.53V +/- 3% for 1kHz 4 ohm rated power, 1.4V +/- 3% for 1kHz 2 ohm rated power |
| Input Impedance | 12 kilohms, balanced and 10 kilohms unbalanced | 20 kilohms, balanced and 10 kilohms unbalance | d 12 kilohms, balanced and 6 kilohms unbalanced | 12 kilohms, balanced and 6 kilohms unbalanced |
| Current Draw @ 1/8 in VA (watts): | 2210 (1440) @ 2 ohms, 1550 (950) @ 4 ohms, 985 (560) @ 8 ohms | 1435 (890) @ 2 ohms, 920 (525) @ 4 ohms, 625 (335) @ 8 ohms | 960 (535) @ 2 ohms, 615 (315) @ 4 ohms, 400 (200) @ 8 ohms | 540 (315) @ 2 ohms, 370 (180) @ 4 ohms, 240 (115) @ 8 ohms |
| Current Draw @ 1/3 in VA (watts): | 4260 (3150) @ 2 ohms, 3120 (2160) @ 4 ohms, 1890 (1200) @ 8 ohms | 3050 (2155) @ 2 ohms, 1880 (1200) @ 4 ohms, 1200 (715) @ 8 ohms | 2065 (1360) @ 2 ohms, 1215 (735) @ 4 ohms, 740 (420) @ 8 ohms | 1250 (760) @ 2 ohms, 750 (425) @ 4 ohms, 460 (240) @ 8 ohms |
| Idle Consumption: | 250VA, 120 watts | 195VA, 90 watts | 160VA, 75 watts | 90VA, 40 watts |
| Cooling | 3 temperature dependent variable speed fans | 3 temperature dependent variable speed fans | temperature dependent variable speed fan | temperature dependent variable speed fan |
| CONTROLS Front: | 2 front panel attenuators, push-button navigation encoder to navigate through the menus on the LCD screen for input mode, parametric EQ, crossover select switch for HPF, Normal and LPF | | | |
| INDICATOR LEDS: | Five LED indicators per channel: Active, Signal, ACL, Temperature, and DC | | | |
| Protection | Thermal, DC, subsonic, incorrect loads, under and over voltage | | | |
| CONNECTORS Inputs: | Dual combination 1/4" XLR | | | |
| Outputs: | Dual male XLR input thru, one 2-pin & one 4 pin twist-lock connector | Dual male XLR input thru, one 2-pin & one 4 pin twist-lock connector | Three 4-pin twist lock connectors for 2 channels plus bridge | Three 4-pin twist lock connectors for 2 channels plus bridge |
| Construction | 0.062" thick aluminum | 0.062" thick aluminum | 18 ga. galvanized steel | 18 ga. galvanized steel |
| DIMENSIONS | 3.5" x 19" x 17.25" behind front panel + 0.75" for handle | 3.5" x 19" x 17.25" behind front panel + 0.6" for handle | 3.5" x 19" x 17.25" behind front panel + 0.6" for handle | 3.5" x 19" x 17.25" behind front panel + 0.6" for handle |
| Gross Weight Net Weight | 19.0 lbs* (8.6 kg) 15.2 lbs (6.9 kg) | 17.4 lbs* (7.9 kg) 13.6 lbs (6.2 kg) | 12.4 lbs (5.62 kg) 15.0 lbs (6.80 kg) | 10.9 lbs (4.94 kg) 13.3 lbs (6.02 kg) |
| Rated power readings made with BW: 20 Hz to 22 kHz. All power measurements made @ 120 VAC or 240VAC. 2 ohm steady state sine wave power is time limited by circuit breaker. | | | | |

2 ohm steady state sine wave power is time limited by circuit breaker. Bridge operation is not possible. *Net Weight does not include power cord

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Architect's & Engineer's Specifications Crest Audio Pro-LITE[®] Series Power Amplifiers

The dual channel power amplifiers shall be ultra-high efficient, high-power, lightweight Class D designs. The power amplifiers shall be available in four power levels with and without onboard Digital Signal Processing for each channel. Each channel shall be low impedance output with power levels of 900, 1,500, 2,600 and 4,800 watts per channel at 2-ohms (at 1% THD both channels driven at 1kHZ). Channels shall be bridgeable on the two lower wattage models. Bridged power shall be 1,950 and 3,000 watts at 4-ohms (at 1% THD both channels driven at 1 kHZ).

Input signals shall be connected via two combination XLR and ¼" phono jacks. Inputs shall be selectable as parallel, stereo or bridged inputs. Input functions shall be selectable as full-range, sub or through inputs. On the two higher powered models, additional ¼" phono jacks shall provide paralleled output signals for patching line level outputs to other amplifier channels.

Amplified outputs shall be connected via three Speakon type jacks, with two jacks providing discrete outputs for channels A and B, and a third jack providing the bridged output on the models capable of bridging channels. On the two higher powered models, there shall be two Speakon type jacks providing discrete outputs for channels A and B.

Attenuation controls for each channel shall be located on the front panel, along with LED signal lamps for each channel showing that the channel is active, and showing fault conditions for DC, temperature, signal presence and automatic clip limiting.

Each model shall also be available with onboard Digital Signal Processing, which shall include delay, parametric equalization, adjustable crossover, adjustable high-pass filter, horn EQ and MAXX Bass® low-frequency augmentation per channel.

The multi-channel power amplifiers shall be the Crest Audio ProLITE 2.0, ProLITE 3.0, ProLITE 5.0, ProLITE 7.5, ProLITE 2.0 DSP, ProLITE 3.0 DSP, ProLITE 5.0 DSP and ProLITE 7.5 DSP.



Features and specifications subject to change without notice.

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