

## KLR Series Two-Channel, High Performance Amplifiers

KLR specifications

KLR-2000 | KLR-3200 | KLR-4000 | KLR-5000



Ashly's KLR-Series amplifiers are high-efficiency, lightweight, two-channel, high power amplifiers incorporating the latest technologies delivering quality and value for professional quality performance at an extremely affordable price. Whether your application is professional audio or fixed performance installation, KLR amplifiers are optimized to provide reliable audio performance with sonic perfection.

Covering a power range from 1000 to 2500 watts per channel at 2 ohms (20Hz-20kHz, 1% THD), the KLR-2000, KLR-3200, KLR-4000 and KLR-5000 are perfectly suited for a wide range of sound reinforcement. All four KLR amplifiers are optimized to deliver high levels of sustained power, extraordinary audio performance, and road-proven reliability into 2, 4, or 8 ohm loads and are housed in a uniform, rugged 2RU chassis. Each KLR amplifier uses a state-of-the-art Switch Mode Power Supply which assures you of flawless lows, punchy mids and pristine highs. The output topography of the KLR-2000 is Class-AB, while the KLR-3200, KLR-4000, and KLR-5000 are a two-step Class-H design. KLR-Series protection circuits include: output over-current protection, DC output protection, chassis internal temperature monitoring, inrush limiting and a mains circuit breaker (internal fuse on KLR-5000).

Front panel features include: individual input attenuators, signal, clip and protect LEDs, air inflow vents with removable dust filters, power switch and power LED. Rear panel features include: balanced inputs via 3-pin Euroblock, combo XLR/ 1/4" TRS connectors, four pin Speakon type output connectors, 3-position gain switch, 3-position mode switch (bridged, stereo or parallel mono), 3-position HPF switch (30Hz, 50Hz or off), on/off limiter switch, air outflow vents and a permanently attached power cord.

### Features:

- Balanced inputs via 3-pin Euroblock and combo XLR/ 1/4" TRS connectors
- Switch mode power supply provides high efficiency and low weight
- Forced air cooled (front in, rear out)
- Removable dust filters
- Front mounted attenuators
- Rack ears for permanent installation in a standard 2RU enclosure
- Speakon type output connectors
- 3-position gain switch for both channels
- 3-position mode switch (bridged, stereo or parallel mono)
- 3-position HPF switch (30Hz, 50Hz or off)
- On/off limiter switch
- Permanently attached power cord
- Extensive protection circuitry
- Safety/Compliance: cCSAus, CE, FCC, RoHS

# KLR Series Two-Channel, High Performance Amplifiers

KLR specifications

KLR-2000 | KLR-3200 | KLR-4000 | KLR-5000

|  | KLR-2000   | KLR-3200          | KLR-4000        | KLR-5000          |
|--|--|-------------------|-----------------|-------------------|
| <b>Rated Power Output Per Channel</b><br>Stereo Mode, both channels driven |  |                   |                 |                   |
| 8Ω, 20 Hz - 20 kHz, 1% THD   | 350W   | 650W              | 850W            | 1000W             |
| 4Ω, 20 Hz - 20 kHz, 1% THD   | 600W   | 1100W             | 1400W           | 1700W             |
| 2Ω, 20 Hz - 20 kHz, 1% THD   | 1000W  | 1600W             | 2000W           | 2500W             |
| 70V Output, 20Hz - 20kHz, 1% THD, per channel                              | X  | 800W              | X               | X                 |
| <b>Bridged Mono Mode</b>   |  |                   |                 |                   |
| 4Ω, 20 Hz - 20 kHz, 1% THD   | 2000W  | 3200W             | 4000W           | 5000W             |
| <b>Line Current Draw (all channels driven @4Ω)</b>                         |  |                   |                 |                   |
| Idle   | 0.99A  | 0.92A             | 1.05A           | 1.14A             |
| 1/8th Power Pink Noise   | 9.7A   | 11.4A             | 14.0A           | 17.5A             |
| 1/3 Power Sine Wave  | 14.9A  | 16.6A             | 19.8A           | 24.7A             |
| S/N (20 Hz-20 kHz, unweighted)   | >108dB   | >109dB            | >109dB          | >110dB            |
| <b>Thermal Dissipation (all channels driven @4Ω)</b>                       |  |                   |                 |                   |
| Idle (BTU/hr)  | 164  | 136               | 171             | 215               |
| 1/8th Power Pink Noise (BTU/hr)  | 1876   | 2063              | 2489            | 3111              |
| 1/3 Power Sine Wave (BTU/hr)   | 2880   | 3001              | 3516            | 4395              |
| Delete The Voltage Gain Line That Was Here                                 | XXX  | XXX               | XXX             | XXX               |
| Input Gain Switch  | 1V, 20dB, 26dB   | 1V, 26dB, 32dB    | 1V, 26dB, 32dB  | 1.4V, 26dB, 32dB  |
| <b>Signal to Noise Ratio</b>   |  |                   |                 |                   |
| (20Hz-20kHz, rated power @ 8Ω unweighted)                                  | >108dB   | >109dB            | >109dB          | >110dB            |
| Output Circuitry:  | Class AB   | 2 Step Class H    | 2 Step Class H  | 2 Step Class H    |
| Weight   | 24 lbs (10.7kg)  | 26.4 lbs (10.9kg) | 26.7 lbs (12kg) | 28.2 lbs (12.8kg) |
| Frequency Response 1W @ 8Ω 20Hz – 20kHz<br>(-3dB down point)               | ±0.3dB<br>5Hz – 70kHz  |                   |                 |                   |
| Damping Factor – 100Hz @ rated power @8Ω                                   | >380   |                   |                 |                   |
| THD 20Hz-20kHz,  | 10dB below rated output @ 4Ω   |                   |                 |                   |
| Input Impedance  | 12 kΩ, balanced  |                   |                 |                   |
| HPF  | 30Hz, 50Hz, Off (12dB/Oct)   |                   |                 |                   |
| Amplifier Protection   | Output Overcurrent, DC Output, Chassis Temperature, Mains Breaker<br>(KLR-5000 uses internal Mains fuse) |                   |                 |                   |
| Cooling  | Variable Speed Fan, Front-to-Rear Air Flow   |                   |                 |                   |
| Front Panel Indicators   | Protection/Clip, Signal, Power   |                   |                 |                   |
| Attenuators  | Per Channel, Front Panel   |                   |                 |                   |
| Input Connectors, each channel   | 3-pin Euroblock, XLR, ¼" TRS Phone Jack  |                   |                 |                   |
| Output connectors, each channel  | Four pin Speakon type  |                   |                 |                   |
| Operating Temperature/Humidity   | Temperature: -10C to +40C / Humidity: 0% to 90%  |                   |                 |                   |
| Power Cable Connector  | 3-prong NEMA 5-15 (5-20 for KLR-5000)  |                   |                 |                   |
| Dimensions   | 19" x 3.5" x 16" (482mm x 88mm x 407mm)  |                   |                 |                   |

Notes: OdBu = 0.775 VRMS

Ashly Audio, Inc.  
847 Holt Road  
Webster, New York USA 14580-9103  
P: 800-828-6308, +1-585-872-0010  
F: +1-585-872-0739  
www.ashly.com info@ashly.com

Specifications subject to change without prior notice.  
Latest information available at www.ashly.com  
© 2011 Ashly Audio, Inc.  
Printed in U.S.A. 09/11

## KLR Series Two-Channel Power Amplifiers

KLR-Series amplifiers are very efficient, lightweight high-power amplifiers incorporating the latest amplifier technologies.



### Architect & Engineering Specs

#### KLR-2000

The two-channel power amplifier shall incorporate the latest amplifier technology to deliver a minimum power of 1,000 Watts per channel into 2 Ohm loads, 600 Watts RMS per channel into 4 Ohm loads, or 350 Watts RMS per channel into 8 Ohm loads with both channels operating. The amplifier shall have rear panel switching for parallel mono and bridging modes. When switched into bridged-mono mode, the amplifier it shall deliver 2,000 Watts into a 4 Ohm load. The amplifier protection shall include output over-current, DC output, chassis temperature, and a mains circuit-breaker. Frequency response shall be 20Hz to 20kHz (1W @ 8 Ohms). The Signal-to-Noise Ratio shall be greater than 108dB at rated power into 8 Ohms (unweighted). THD shall be less than 0.05% into 4 Ohms, 20Hz – 20kHz and 10dB below rated power. The amplifier shall have a channel attenuator for each input on the front panel and input sensitivity select switch, a high-pass filter switch and limiter enable switch on the rear panel. The inputs shall be of balanced bridging type with XLR, ¼" TRS, and 3-pin Euroblock connectors. The outputs shall be four pin Speakon type connectors. L.E.D type indicators shall be employed to show the relative power level of each channel, clip/protect and power on/off. Self contained forced air cooling (front in) shall be used with front panel mounted, removable dust filters. The power amplifier shall weigh 24lbs/10.9kg net and mount in a standard 19 inch rack using two spaces (3.5 inches high). The power requirement shall be 110 – 125VAC, 50 – 60Hz. The power amplifier shall be the Ashly KLR-2000.

#### KLR-3200

The two-channel power amplifier shall incorporate the latest amplifier technology to deliver a minimum power of 1,600 Watts per channel into 2 Ohm loads, 1,100 Watts RMS per channel into 4 Ohm loads, or 650 Watts RMS per channel into 8 Ohm loads with both channels operating. The amplifier shall have rear panel switching for parallel mono and bridging modes. When switched into bridged-mono mode, the amplifier it shall deliver 3,200 Watts into a 4 Ohm load. The amplifier protection shall include output over-current, DC output, chassis temperature, and a mains circuit-breaker. Frequency response shall be 20Hz to 20kHz (1W @ 8 Ohms). The Signal-to-Noise Ratio shall be greater than 109dB at rated power into 8 Ohms (unweighted). THD shall be less than 0.05% into 4 Ohms, 20Hz – 20kHz and 10dB below rated power. The amplifier shall have a channel attenuator for each input on the front panel and input sensitivity select switch, a high-pass filter switch and limiter enable switch on the rear panel. The inputs shall be of balanced bridging type with XLR, ¼" TRS, and 3-pin Euroblock connectors. The outputs shall be four pin Speakon type connectors. L.E.D type indicators shall be employed to show the relative power level of each channel, clip/protect and power on/off. Self contained forced air cooling (front in) shall be used with front panel mounted, removable dust filters. The power amplifier shall weigh 26.4lbs/12kg net and mount in a standard 19 inch rack using two spaces (3.5 inches high). The power requirement shall be 110 – 125VAC, 50 – 60Hz. The power amplifier shall be the Ashly KLR-3200.

#### KLR-4000

The two-channel power amplifier shall incorporate the latest amplifier technology to deliver a minimum power of 2,000 Watts per channel into 2 Ohm loads, 1,400 Watts RMS per channel into 4 Ohm loads, or 850 Watts RMS per channel into 8 Ohm loads with both channels operating. The amplifier shall have rear panel switching for parallel mono and bridging modes. When switched into bridged-mono mode, the amplifier it shall deliver 4,000 Watts into a 4 Ohm load. The amplifier protection shall include output over-current, DC output, chassis temperature, and a mains circuit-breaker. Frequency response shall be 20Hz to 20kHz (1W @ 8 Ohms). The Signal-to-Noise Ratio shall be greater than 109dB at rated power into 8 Ohms (unweighted). THD shall be less than 0.05% into 4 Ohms, 20Hz – 20kHz and 10dB below rated power. The amplifier shall have a channel attenuator for each input on the front panel and input sensitivity select switch, a high-pass filter switch and limiter enable switch on the rear panel. The inputs shall be of balanced bridging type with XLR, ¼" TRS, and 3-pin Euroblock connectors. The outputs shall be four pin Speakon type connectors. L.E.D type indicators shall be employed to show the relative power level of each channel, clip/protect and power on/off. Self contained forced air cooling (front in) shall be used with front panel mounted, removable dust filters. The power amplifier shall weigh 26.7lbs/12.1kg net and mount in a standard 19 inch rack using two spaces (3.5 inches high). The power requirement shall be 110 – 125VAC, 50 – 60Hz. The power amplifier shall be the Ashly KLR-4000.

#### KLR-5000

The two-channel power amplifier shall incorporate the latest amplifier technology to deliver a minimum power of 2,500 Watts per channel into 2 Ohm loads, 1,700 Watts RMS per channel into 4 Ohm loads, or 1,000 Watts RMS per channel into 8 Ohm loads with both channels operating. The amplifier shall have rear panel switching for parallel mono and bridging modes. When switched into bridged-mono mode, the amplifier it shall deliver 5,000 Watts into a 4 Ohm load. The amplifier protection shall include output over-current, DC output, chassis temperature, and an internal mains fuse. Frequency response shall be 20Hz to 20kHz (1W @ 8 Ohms). The Signal-to-Noise Ratio shall be greater than 110dB at rated power into 8 Ohms (unweighted). THD shall be less than 0.05% into 4 Ohms, 20Hz – 20kHz and 10dB below rated power. The amplifier shall have a channel attenuator for each input on the front panel and input sensitivity select switch, a high-pass filter switch and limiter enable switch on the rear panel. The inputs shall be of balanced bridging type with XLR, ¼" TRS, and 3-pin Euroblock connectors. The outputs shall be four pin Speakon type connectors. L.E.D type indicators shall be employed to show the relative power level of each channel, clip/protect and power on/off. Self contained forced air cooling (front in) shall be used with front panel mounted, removable dust filters. The power amplifier shall weigh 28.2lbs/12.8kg net and mount in a standard 19 inch rack using two spaces (3.5 inches high). The power requirement shall be 110 – 125VAC, 50 – 60Hz. The power amplifier shall be the Ashly KLR-5000.

Visit [www.ashly.com](http://www.ashly.com) to download KLR series data sheets