

Architects Specifications

Powerflex-4400 Four Channel Amplifier

The power amplifier shall be a multichannel unit consisting of four independent channels. Each amplifier shall be able to deliver 275 watts into 8 ohms, or 400 watts into 4 ohms. In addition, bridged pairs shall be able to output 800 watts each into 8 ohms.

The amplifier shall have a gain of 30.1dB and an input sensitivity of 1.25 Volts RMS for full rated output. Frequency response shall be 20Hz to 20kHz +/- 0.5dB at 8 ohms. The unit shall be stable into any load, including pure capacitors and inductors. Hum and noise shall be at least 100dB below full output (A-weighted) and SMPTE intermodulation distortion shall be less than 0.2%. Total Harmonic Distortion (20Hz - 20KHz at 8 ohms) shall be less than 0.2%.

Each amplifier channel shall be supplied with an input attenuator located on the rear panel input module. Each pair of inputs shall have a bypassable high pass filter of 12dB/octave at 50Hz, a switch to select stereo or mono mode and a switch to select dual or bridge mode. There shall be an input ground switch located on the input module to select chassis or floating ground operation.

The inputs shall be active balanced design, with an impedance of 10K ohm accessible with combination XLR - 1/4" jacks and euro-block connectors. The outputs shall be terminated with a 5-way binding post connector.

Individual channel indicators for protect, thermal overload, clip and signal present shall be LEDs located on the front panel.

Cooling shall be supplied by a temperature sensitive three-speed fan drawing air from the front of the unit and exiting through the rear.

The unit shall be capable of operation by means of its own built-in power supply connected to 110 - 125V AC, 220 - 250V AC, 50/60Hz. Dimensions of the unit shall be 19"L X 5.25"H X 16.5"D. The chassis shall be constructed from steel with an aluminum face panel and weigh 45lbs.

The unit shall be the Powerflex 4400 manufactured by Ashly Audio, Inc.

- Four Channel Amplifier - 275W/Ch @ 8 Ohms, 400W/Ch @ 4 Ohms
- Revolutionary High-Speed Switched MosFet Output Design with Spread Spectrum Switching Technology
- Superior Efficiency Over Conventional Linear Amplifiers
- Input Module with Level Controls Located on Rear Panel
- Switchable HPF on Inputs
- XLR - 1/4", Euroblock Input Connections
- 5-Way Binding Post Output Connections
- Individual Channel Front Panel Level and Protection Indicators
- Multiple Protection Circuits
- Exceptional Audio Fidelity
- Bridgeable Channel Pairs
- Internal Modular Design
- Quiet, Three-Speed Fan
- Front In/Rear Out Channeled Air-Flow
- Five Year Warranty

General Specifications Powerflex™ 4400

*Power Output

(Maximum Average Power, 0.1% THD, 1KHz)

Rated Per Channel, Two Channels Driven

4 ohm: 400 Watts RMS

8 ohm: 275 Watts RMS

Mono Bridged (1 Channel)

8 ohm: 800 Watts RMS

Rated Per Channel, All Channels Driven

4 ohm: 400 Watts RMS†

8 ohm: 275 Watts RMS

Mono Bridged (2 channels)

8 ohm: 800 Watts RMS

Input Impedance: 10K ohm balanced, 37K ohm unbalanced

High Pass Filter: 50Hz, 12dB/octave

****Total Harmonic Distortion (20Hz - 20KHz @ 8 ohms):** <0.2%

**IMD

(SMPTE 60Hz/7KHz 4:1) @ 8 ohms: <0.2% (throughout power range)

(IHF) @ 8 ohms: <0.1% (throughout power range)

****Hum and Noise:** -100dB from full output (A-weighted)

Full Power Input Sensitivity: 1.47V RMS (5.6dBu)

Frequency Response:

8 ohm: ±0.5dB 20Hz-20kHz

4 ohm: ±1.5dB 20Hz-20kHz

Voltage Gain: 32X (30.1dB)

Crosstalk: < -80dB (20Hz - 1KHz)

Signal Present Signal Sensitivity: 13mV RMS (-35.5dBu)

Power Requirement: 110-125VAC, 220 - 250VAC, 50/60Hz

Typical Idle Current

120V: 0.9A

240V: 0.5A

Current with Typical Audio Program Material (4 ohm load x 4 Channels)

120V: 7A

240V: 3.5A

Connections

Input: XLR - 1/4" (Pin 2: Hot, Tip: Hot), Euroblock

Output: 5-Way Binding Post

Cooling: Forced Air, Thermal Sensitive 3-Speed Fan, Front Inlet/Rear Outlet

Dimensions: 19"L x 5.25"H x 16.5"D

Construction: All-Steel Chassis, Extruded Aluminum Front Panel

Weight: 46 lbs. net, 53 lbs. shipping

Specification conditions are: 120VAC mains at 60Hz, 25° C

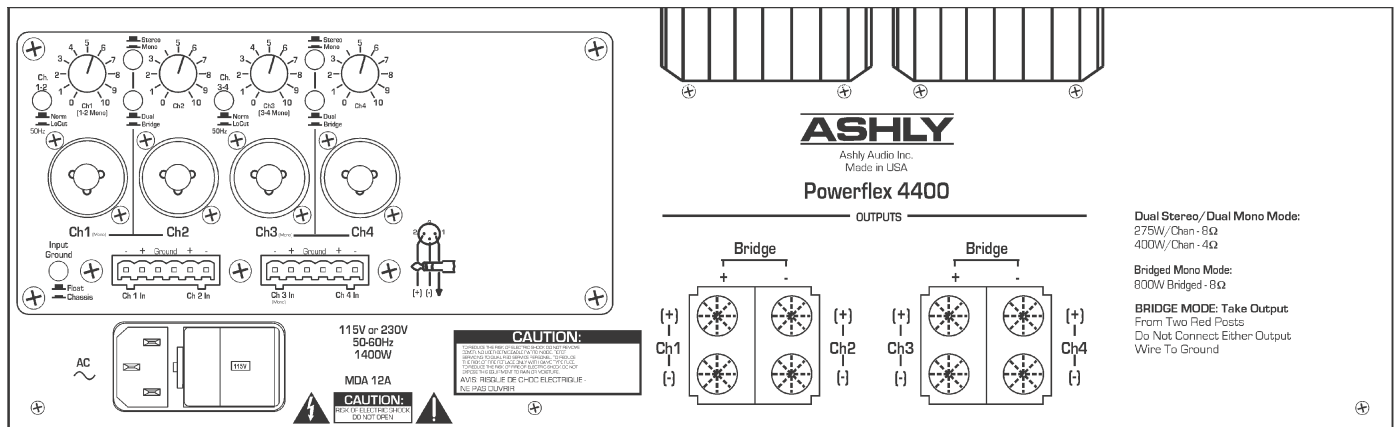
* Continuous power limited by power line capacity

**Non-conventional amplifiers require bandwidth limiting for all distortion and noise measurements

† Signal peaks in audio programming may trigger protection circuitry at low line voltages

Specifications are subject to change or improvement without notice

Powerflex 4400 Rear Panel



Applications:

Any multichannel power amplification application, PA and DJ applications, paging systems, cinema systems, boardroom audio applications, multiple zone restaurant, bar, theme park or auditorium systems, surround sound applications, recording studios.

Ashly manufactures a complete and comprehensive line of Graphic and Parametric Equalizers, Electronic Crossovers, Power Amplifiers, Compressor-Limiters, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

Ashly Audio Inc., 847 Holt Road, Webster, NY 14580-9103, Toll Free (800) 828-6308, Telephone (585) 872-0010, FAX (585) 872-0739
Internet: <http://www.ashly.com>, email: info@ashly.com