

# AE Techron

## LVC 608 AMPLIFIER

### APPLICATION

The **LVC 608** is a general purpose, low power, linear power amplifier. It works best when driving loads of 4 ohms or higher.

The **LVC 608** works well with either pulsed or continuous test signals. The **LVC 608** has two (2) separate channels that can be operated independently or combined for greater maximum voltage or current. In **Bridge-mono mode** the available output voltage doubles. In **Parallel-mono mode** the amplifier operates with twice the available output current.



### AE Techron, Inc. LVC 608 Amplifier

### FEATURES

- ▶ Output of 8.0 amperes rms, or 45 volts rms, per channel depending on load.
- ▶ Frequency bandwidth of DC to 20 kHz at full power.
- ▶ Option of controlled voltage, or controlled current operation, modes changed via a jumper
- ▶ User-adjustable voltage or current limiting
- ▶ Remote switching to standby mode by contact closure
- ▶ External monitoring of voltage and current output
- ▶ Equipped with circuitry to protect the amplifier from input overloads, improper output connection (including shorts and improper loads), excessive temperature, voltage or current.
- ▶ Shipped ready to operate using single-phase, 120-volt AC mains. Also available in 100 and 230 VAC versions.
- ▶ Installs easily into a standard 19 inch rack, or stands alone for bench top operations

### INDICATORS AND CONTROLS

- ▶ Front panel LEDs indicate signal presence and output overload
- ▶ A pushbutton power "On/Off" located on the front panel
- ▶ Two gain controls on the front panel for controlled voltage applications
- ▶ Two circuit breaker resets on the back panel
- ▶ A back panel slide switch to lift signal ground from chassis ground
- ▶ A back panel slide switch to choose between 2 channel, bridge mono and parallel mono operation



Call us or visit our website! When your project or product requires a low noise, low distortion, high power amplifier solution, contact **AE Techron Inc.**

**AE Techron Inc.**

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# LVC 608 SPECIFICATIONS

## PERFORMANCE (One hour continuous ratings)

### Frequency response

+/- 0.1 dB from 20 Hz to 20 kHz at 1 watt

### Phase response

+/- 10 Degrees (10 Hz to 20 kHz at 1 watt)

### Signal-to-noise ratio

At 26 dB gain, better than 105 dB (A-weighted) below full output

### THD

Less than 0.05% from 20 Hz to 1 kHz increasing linearly to 0.1% at 20 kHz at full output

### I.M. Distortion

<0.05% from 410 milliwatts to full output at 26 dB gain with and 8 ohm load

### Slew rate

> 13V per microsecond

### Load Impedance

Rated for 16,8,4 and 2 ohm use. Safe with all load types even reactive ones.

### Input Impedance

Greater than 10K ohms, balanced, and 5K ohms unbalanced.

### Output impedance

Less than 10 milliohms in series with less than 2 microhenries

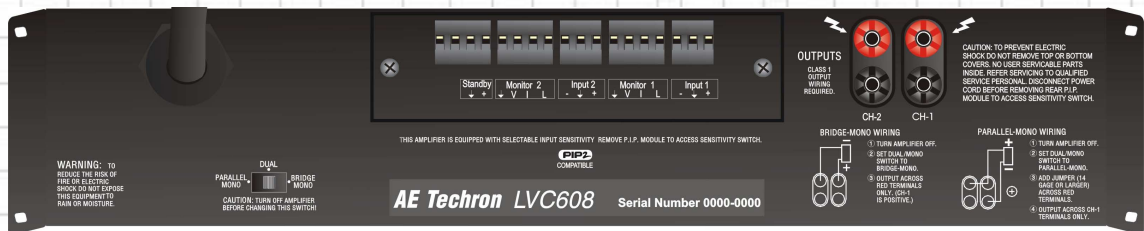
## OUTPUT POWER

Measurements taken at 1 kHz at .05% THD with amplifiers operating in controlled voltage mode. All power specifications are the RMS ratings.

Ohms	40mSec Burst			1 Hour Continuous		
	Volts	Amps	Watts	Volts	Amps	Watts
4	36	9.0	325	34.2	8.6	292.4
8	42.4	5.3	225	41	5.1	210
16	45.5	2.8	129	45.5	2.8	129

Ohms	40mSec Burst			1 Hour Continuous		
	Volts	Amps	Watts	Volts	Amps	Watts
4	54.7	13.7	750	14.2	3.6	50
8	72.4	9.1	655	45.2	5.7	255.4
16	84.9	5.3	450	80.2	5.0	402.0

Ohms	40mSec Burst			1 Hour Continuous		
	Volts	Amps	Watts	Volts	Amps	Watts
2	36.4	18.2	662.5	31.4	15.7	493
4	42.4	10.6	449.4	39.8	10.0	396



## PHYSICAL CHARACTERISTICS

**Chassis:** The Amplifier is designed for stand alone, or rack mounted, operation. The Chassis is black steel with a silver finished aluminum front panel. The unit occupies two EIA 19-inch-wide units.

**Weight:** 45 lbs. (20.42 kg). Shipping weight is 55 lbs. (24.95 kg).

**AC Power:** Single phase, 120 volts, 60 Hz, 15 amperes ac service. (Note: 100, 120 or 230 volt, 50-60 Hz models are available Call for specifications.)

**Cooling:** Forced air cooling from the front, through removable filters, to side panels.

**Dimensions:** 19 in. x 16 in. x 3.5 in (48.3 cm x 40.3.0 cm x 8.9 cm)

## SUPPORT

When you purchase an **AE Techron** amplifier, a full complement of technical and factory support personnel join your team. **AE Techron INC.** provides:

- ▶ Applications engineering for your technical questions and customized product needs.
- ▶ A one year limited warranty to protect your equipment investment.
- ▶ A fully equipped service center to keep your amplifier operating at original performance requirements.

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