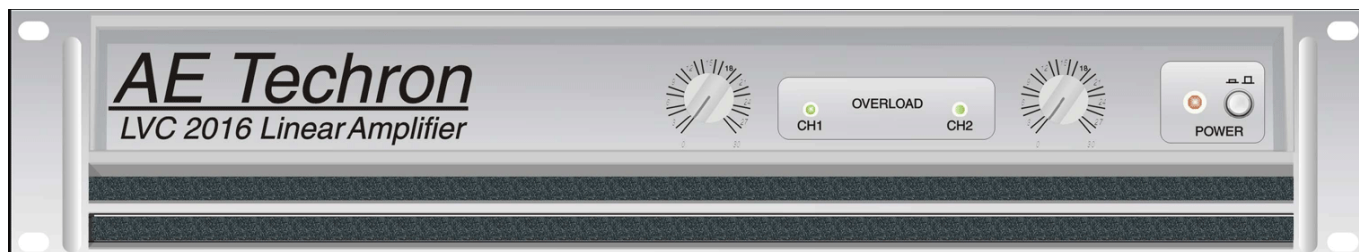




LVC2016 LINEAR AMPLIFIER



APPLICATION

The LVC 2016 is a general purpose, medium voltage, low continuous current, linear power amplifier. It works best when driving loads of 4 - 16 ohms. The LVC 2016 works well with either pulsed or higher impedance continuous test signals. The LVC 2016 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.

FEATURES

- Output of 8.0 amperes rms, or 16 volts rms, per channel into a 2 ohm load.
- Frequency bandwidth of DC to 20 kHz at full power, DC to 100kHz at reduced power.
- Controlled Voltage or Controlled Current operation
- User-adjustable voltage or current limiting.
- Remote force to standby mode by contact closure.
- External buffered monitoring of voltage and current output.
- Protection provided against, input overloads, improper output connection (including shorts and improper loads), excessive temperature, voltage or current, and under voltage conditions.
- Shipped ready to operate using single-phase, 120-volt, 20Amp or 220-240V, 10Amp AC mains.

OPTIONS - User Configurable

- Variable voltage and current limiting
- DC Coupled (DC Enabled) or AC Coupled (DC Blocked)
- Controlled Voltage or Controlled Current Operation
- In Voltage mode - Fixed gain (20, 44.5, 79.5) or Variable (0 - 20, 0 - 44.5, 0 - 79.5)
- In Current mode - Fixed Trans-conductance (20) or Variable (0 - 20)
- Channel configuration - two independent channels, two channels paralleled to Mono, two channels bridged to Mono

OPTIONS - Factory-Only Configurable

- Shipped ready to operate using single-phase,
- Available in either 120-volt, 20Amp 60Hz or 230-volt, 10Amp 50/60Hz AC mains configuration



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 choose between 2 channel, bridge mono and parallel mono operation

OUTPUT POWER

Measurements taken at 1 kHz at .05% THD with amplifiers operating in controlled voltage mode.

One Channel Driven

Ohms	40mSec Burst, RMS			1 Hour Continuous, RMS		
	Watts	Volts	Amps	Watts	Volts	Amps
4	800	57	14	87	18.7	5
8	520	64	8	525	64.8	8

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 voltage gain of 20, 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 output with a voltage gain of 20 into an 8 ohm load

Slew rate: >13V per microsecond

Load Impedance: Rated for 16, 8, 4 and 2 ohm use. Safe with all load types, including reactive loads

Input Impedance: Greater than 10K ohms, balanced, and 5K ohms unbalanced.

Output impedance: Less than 10 milliohms in series with less than 2 microhenries

Two Channel Bridged to Mono

Ohms	40mSec Burst, RMS			1 Hour Continuous, RMS		
	Watts	Volts	Amps	Watts	Volts	Amps
4	2070	91	23			
8	1585	113	14	114	30.2	4
16	1035	129	8	994	126.1	8

Two Channel Paralleled to Mono

Ohms	40mSec Burst, RMS			1 Hour Continuous, RMS		
	Watts	Volts	Amps	Watts	Volts	Amps
2	1605	57	28	114	15.1	8
4	1035	64	16	995	63.1	16
8	603	69	9	597	69.1	9

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: 52 lbs. (23.5 kg), Shipping 66 lbs. (30 kg)

AC Power: Single phase, 120 volts, 60 Hz, 20 amperes ac service. (Note: 220-240VAC, 50-60 Hz models are available. Call for specifications.)

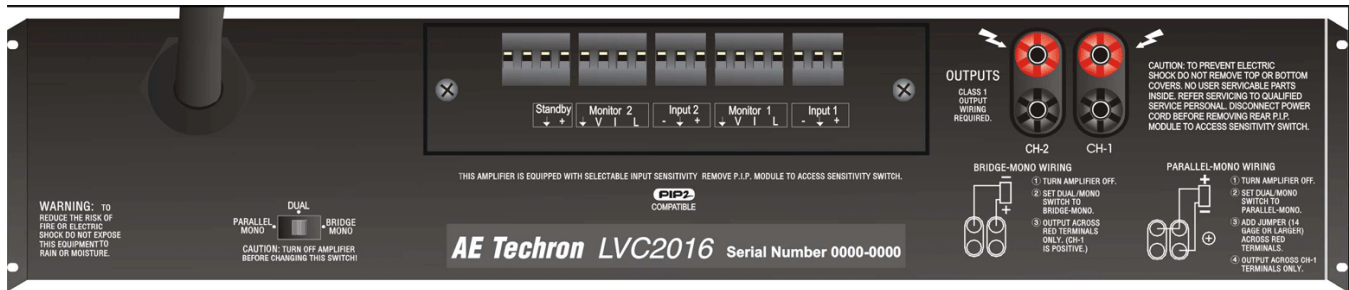
Cooling: Forced air cooling from the front, through removable filters, to side panels.

Dimensions: 19 in. x 18.5 in. x 3.5 in (48.3 cm x 47.0 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 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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