

LV3620 LINEAR AMPLIFIER

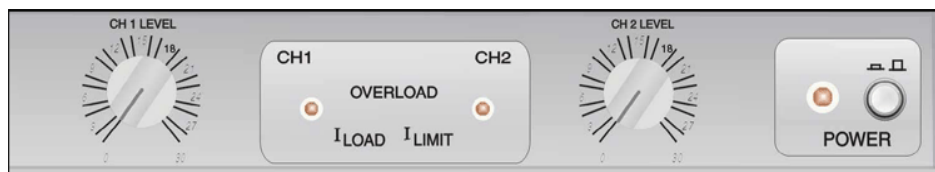


APPLICATION

The LV 3620 is a versatile, dc-coupled amplifier that can be operated as two independent channels, or the channels can be 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 4.0 amperes rms, 100 volts rms per channel.
- Front panel indicators for rapid assessment of amplifier status.
- Designed to survive input overloads, improper output connection (including improper loads) and continuous operation under demanding conditions
- Shipped ready to operate using single-phase, 120-volt AC mains (* Call for other available voltages.)
- Installs easily into a standard 19 inch rack, or stands alone for bench top operations
- Backed by with AE Techron's application engineering, service facilities, technical support and one year warranty



INDICATORS AND CONTROLS

- Front panel LEDs indicate signal presence and output overload
- A pushbutton power "On/Off" located on the front panel
- Two circuit breaker resets on the back panel
- A back panel slide switch to lift signal ground from chassis ground

OUTPUT POWER

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

PERFORMANCE (One hour continuous ratings)

Frequency response: dc to greater than 20 kHz

Phase response: +/- 18 Degrees (10 Hz to 20 kHz at 1 watt)

Signal-to-noise ratio: 100 dB gain below rated output (20 Hz to 20 kHz)

THD + Noise: Less than 0.10% at 600 hz, full output power

Maximum slew rate: 30 volts/microsecond

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

Input Impedance: 20.0k ohm differential

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: 56 lbs. (25.4 kg)

AC Power: Single phase, 120 volts, 60 Hz, 20 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.

One Channel Driven

Ohms	40mSec Burst, RMS			1 Hour Continuous, RMS		
	Watts	Volts	Amps	Watts	Volts	Amps
2	1200	60	30	156	17.7	8.8
4	1565	79	19.8	286	33.6	8.5
8	1120	95	11.8	392	56	7
25	393	100.7	3.9			

Two Channel Bridged to Mono

Ohms	40mSec Burst, RMS			1 Hour Continuous, RMS		
	Watts	Volts	Amps	Watts	Volts	Amps
4	3505	118	29.6	156	17.7	8.8
8	3140	158	19.8	286	33.6	8.5
16	2250	190	11.9	392	56	7
25	1616	201	8			

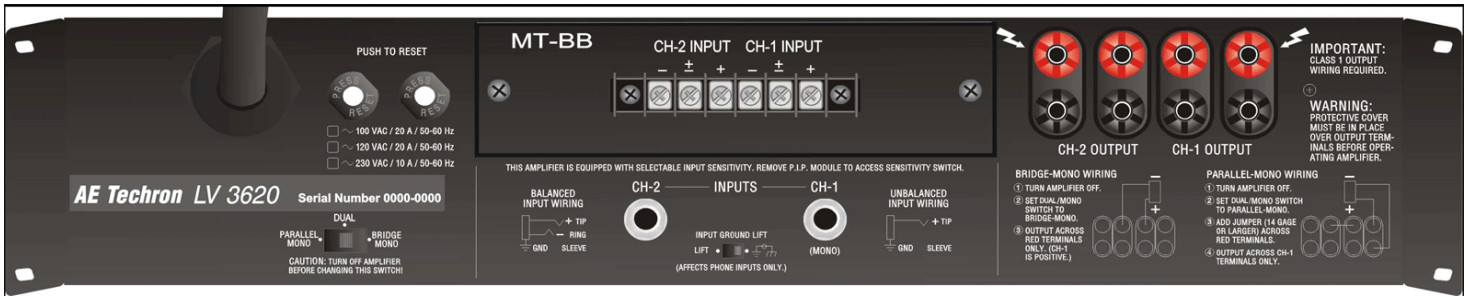
Two Channel Paralleled to Mono

Ohms	40mSec Burst, RMS			1 Hour Continuous, RMS		
	Watts	Volts	Amps	Watts	Volts	Amps
1	3555	60	59.6	256	16	16
2	3190	80	39.9	564	33.6	16.8

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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