

## APPLICATION

The LVC2016HF is a special extended frequency version of the LVC2016 linear power amplifier. The LVC2016HF will safely drive a wide range of loads from less than 2 ohm to an open circuit. The LVC2016HF amplifier works well with continuous or pulse test signals.



## LVC2016HF Specification Sheet

The LVC2016HF has two (2) separate channels than 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 double the output current.

## FEATURES

- Long term output of 8.0 amperes RMS or 64 volts RMS per channel into 8ohm load
- Frequency bandwidth of DC - 30kHz at full power, DC - 250kHz at reduced voltage
- Controlled Voltage operation
- 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-current conditions
- Shipped ready to operating using single-phase, 120 volt, 20 ampere or 230 volt, 10 ampere AC mains
- Installs easily into a standard 19-inch rack or stands alone for benchtop operation

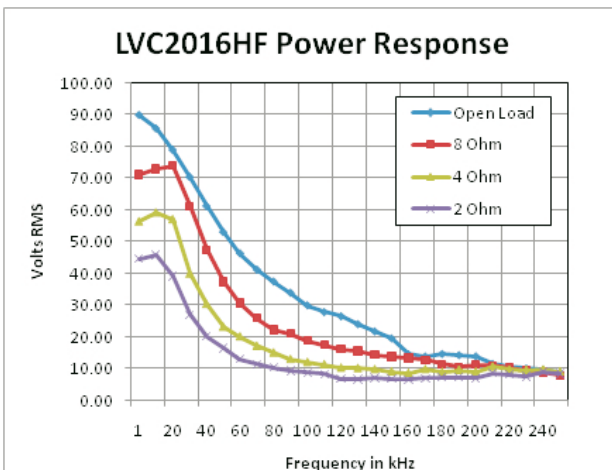
## OPTIONS - Factory Installed

- DC Coupled (DC enabled) or AC coupled (DC Blocked)
- Fixed voltage gain (20, 44.5, 79.5) or Variable (0 - 20, 0 - 44.5, 0 - 79.5)

## OPTIONS - User Configurable

- Channel configuration - two independent channels, two channels paralleled to Mono, two channels bridged to Mono

## POWER BANDWIDTH GRAPH



The LVC2016HF improves upon the high-frequency performance of the LVC2016.

To see if the LVC2016HF is right for your application, please contact your AE Techron sales representative.

## INDICATORS & CONTROLS (Front)

- Front panel LEDs indicate signal presence and output overload
- A push-button power "On/Off" switch
- Two gain controls on front panel for controlled voltage applications



## INDICATORS & CONTROLS (Back)

- Two circuit breaker resets
- Panel slide switch to choose between 2 channel, bridge mono and parallel mono operation



## PERFORMANCE (1-Hour Continuous Rating)

### Frequency Response

- +/- 0.1 dB from DC - 20kHz at 1 watt
- 3 dB at 340kHz at 1 watt

### Phase Response

- +/- 10 degrees 10Hz - 20kHz at 1 watt

### Signal-to-Noise Ratio

At a voltage gain of 20, better than 105 dB (A-weight) below full output

### THD

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

### I.M. Distortion

<0.05% from 410 milliwatts to full output at a voltage gain of 20 into an 8-ohm load

### Slew Rate

>20V per uSec

### Load Impedance

Rated for 16, 8, 4, 2 and 1 ohm use. Safe with all load types, including reactive loads

### Input Impedance

Greater than 10K ohms, balance. 5K ohms, unbalanced

### Output Impedance

Less than 10 milliohms in series with less than 2 microhenries

## OUTPUT POWER (Measurements taken at 1kHz at .05% THD with amplifiers operating in controlled voltage mode)

### One Channel Driven (All Values RMS)

Ohms	40mSec Burst			1 Hour Continuous		
	Watts	Volts	Amps	Watts	Volts	Amps
4	800	57	14	87	18.7	5
8	520	64	8	525	64.8	8
16	406	81	5	406	80.6	5

### Two Channel Bridged to Mono (All Values RMS)

Ohms	40mSec Burst			1 Hour Continuous		
	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			1 Hour Continuous		
	Watts	Volts	Amps	Watts	Volts	Amps
2	420	29	14	392	28	14
4	290	34	9	289	34	9
8	166	36	5	165	36.3	5

## 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 2 EIA 19-inch wide units.

### Weight

52 lbs (23.5kg)

Shipping Weight - 66 lbs (30kg)

### AC Power

Single phase, 120 volt, 60Hz, 20 ampere AC service.

(Note: 220-240VAC, 50-60Hz models are available, call for specifications)

### Cooling

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

### Dimensions

19in x 16in x 3.5in (48.3cm x 40.6cm x 8.9cm)

## SUPPORT

When you purchase an AE Techron amplifier, a full complement of support personnel joins your team.

### AE Techron, Inc. provides:

- Applications engineering for your technical questions and customized product needs
- Fully equipped service center to keep your amplifier operating at original performance requirements
- 1-Year limited warranty to protect your equipment investment