HIGH VOLTAGE PIEZO DRIVER (model B)

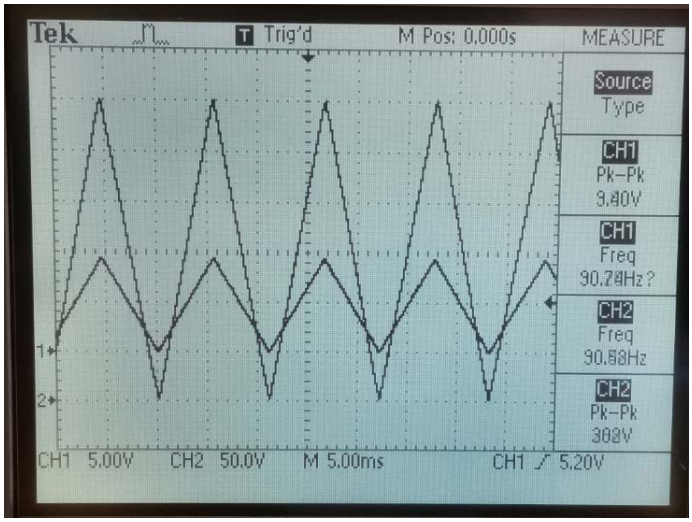
FEATURES

- Single +24V DC Powered, 0-10V Analog Input High Voltage Amplifier
- High Voltage Enable/Disable feature
- Screw In Terminal Connectors, No Soldering Needed
- Suitable for Capacitive Load like Piezo or Resistive Load
- Mounting Slots
- Active Cooling
- All RoHS Components

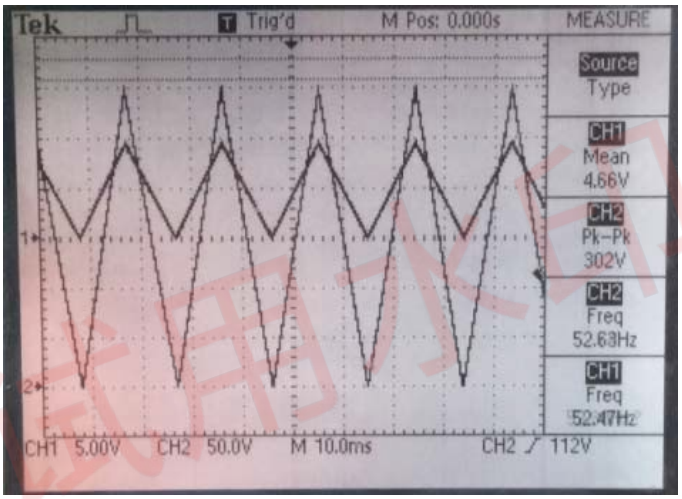
SPECIFICATIONS

Power Supply	+24V
Modulation Input	Analog Input 0-10V, offset adjustable, Max 90Hz, Sine Wave or Triangle Wave within max driving current limit
Voltage Output	0-300Vpk-pk (1.5% max offset)
Max Output Current	± 50 mA
Cooling	Active
Operating Temperature	-20 – 35 C
Dimensions	71mm x 190mm x 155mm
Max Load	Within max current load limit, capacitive or resistive
Bandwidth with resistive load	8.5KHz 0-10V Sine wave Input/150Vpp Sine wave Output

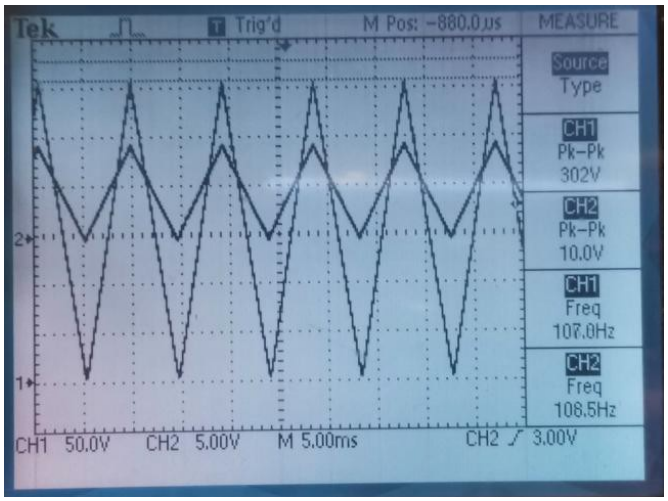
Sample Results:



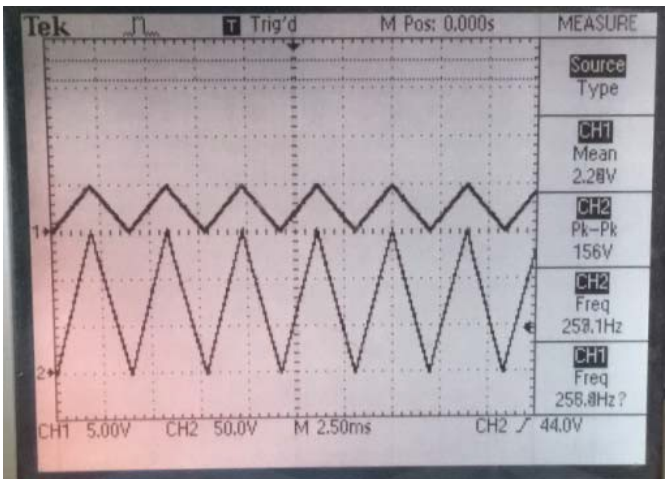
0.94 uF Capacitive Load with 90Hz Triangle Wave Input after 12 hours of running



1 uF Capacitive Load with 50Hz Triangle Wave Input after 12 hours of running



0.47 uF Capacitive Load with 107Hz Triangle Wave Input after 12 hours of running



1 uF Capacitive Load with 250Hz Triangle Wave Input, 150V Output

Calculate Driving Current:

1. Modulate with Triangle Wave

I = ± 2*f*C_load*Vpk-pk

For example, the max current for 90Hz triangle modulation on 0.94uF load, 300Vpk-pk equals: 2*90*0.94e-6*300 = ±50mA

PIN OUT SPECIFICATIONS (start from left to right)	
PIN1	+24VDC Power Supply, use PIN 2 PIN 3 as power return
PIN4	EN: float or GND DIS: +5V ~ +24V DC
PIN6	Analog Input 0-10V, offset adjustable, Max 200Hz, Sine Wave or Triangle Wave within max driving current limit
PIN5 & PIN 7	GND
PIN 9	HV Out
PIN 10	HV Return
PIN 8	No connection, leave unconnected

Mating connector:

Amphenol Anytek 20020003-H101B01LF **Amphenol Anytek HW1050520000G**

Quotation on order of large quantity:

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