HIGH VOLTAGE PIEZO DRIVER (model A)

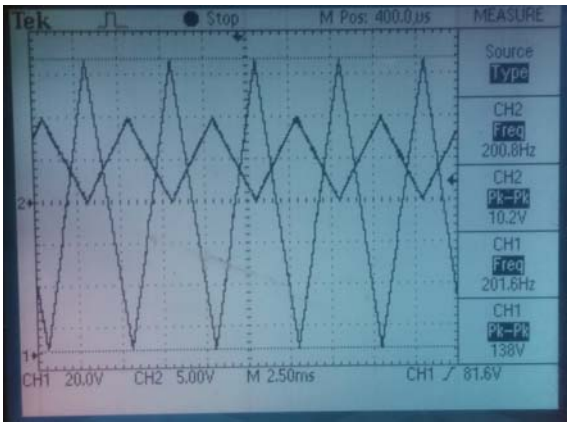
FEATURES

- 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

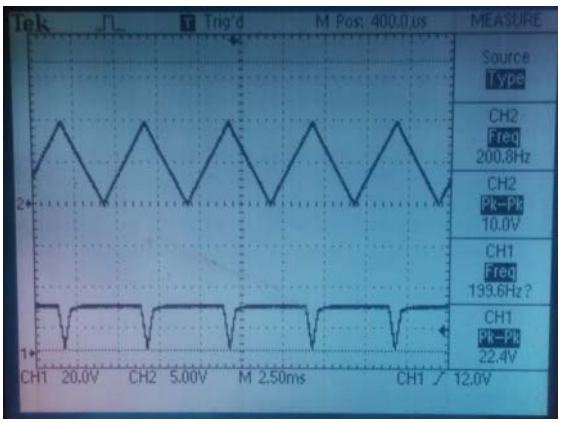
SPECIFICATIONS

Power Supply	+24V
Modulation Input	Analog Input 0-10V, offset adjustable, Max 200Hz, Sine Wave or Triangle Wave within max driving current limit
Voltage Output	0-140Vpk-pk (1.5% max offset)
Max Output Current	±112 mA
Cooling	Active, Noise Level 25dB
Operating Temperature	-20 – 35 C
Dimensions	61mm x 147mm x 160mm
Max Load	Within max current load limit, capacitive or resistive
Bandwidth w/o load	25KHz
Enclosure	Aluminum Alloy

Sample Results:



2 uF Capacitive Load with 200Hz Triangle Wave Input



High Voltage Disable ON (pin5=+24V), the output is 24V with 0-10V triangle wave input

Calculate Driving Current:

1. Modulate with Triangle Wave

I = ±2*f*C_load*Vpk-pk

For example, the max current for 200Hz triangle modulation on 2uF load, 140Vpk-pk equals:

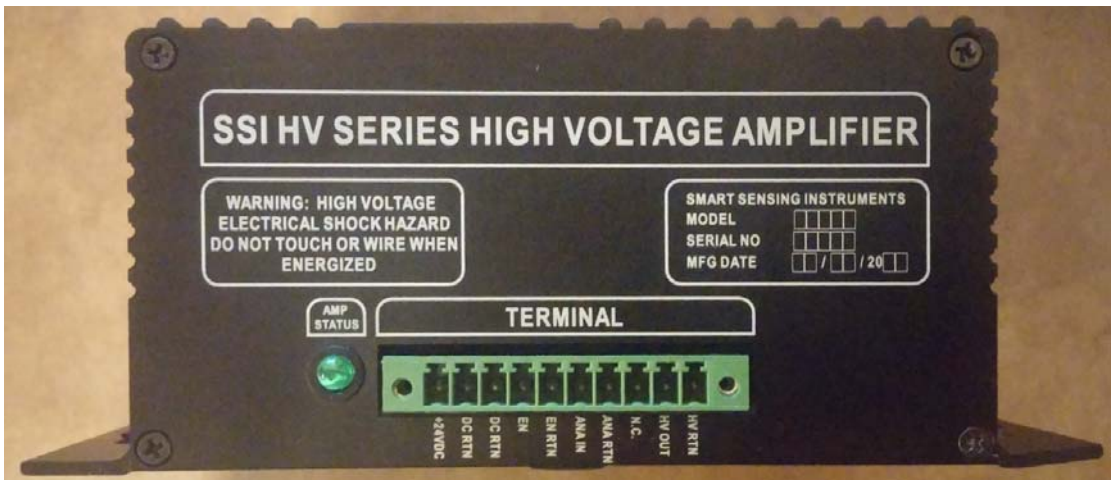
2*200*2e-6*140 = ±112mA

2. Modulate with Sine Wave

I = C_load*π*f*Vpk-pk

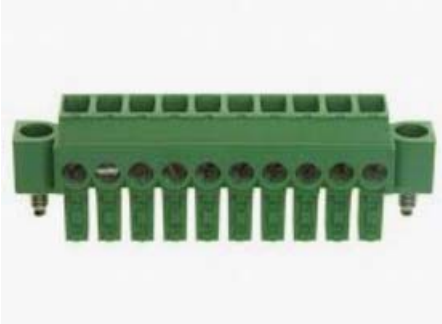
For example, the max current for 150Hz sine wave modulation on 1uF load, 140Vpk-pk equals:

1e-6*3.14*150*140 = 66mA



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:



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