

HIGH VOLTAGE PIEZO DRIVER (model C)



FEATURES

Single +24V DC Powered, 0-10V Analog Input High Voltage Amplifier

High Voltage Enable/Disable, GAIN, OFFSET, MONITORING features

Screw In Terminal Connectors, No Soldering Needed

Suitable for Capacitive Load like Piezo or Resistive Load

Metal Case with Bumpers

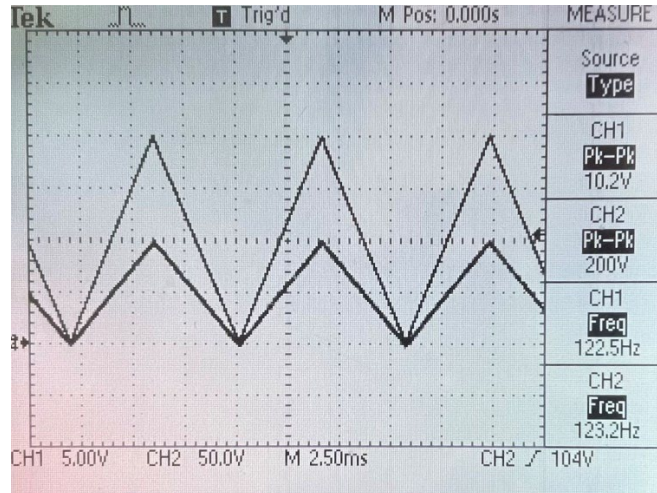
Active Cooling

All RoHS Components

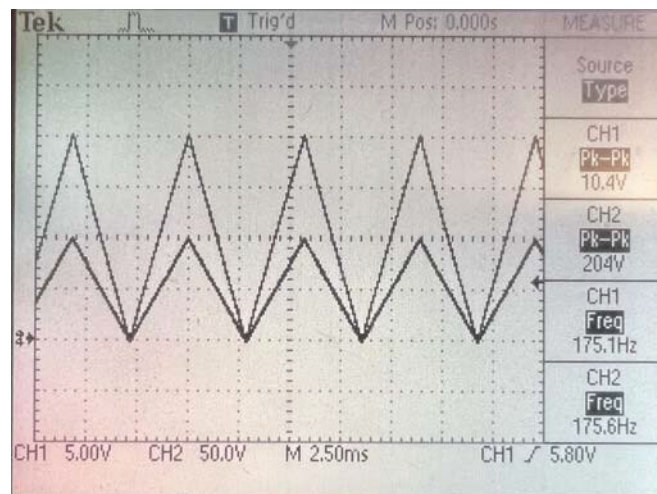
SPECIFICATIONS

Power Supply	+24V
Modulation Input	Analog Input 0-10V, offset adjustable, 0.94uF load max 120Hz Triangle Wave within driving current limit
Voltage Output	0-200Vpk-pk (3% max offset)
Max Output Current	± 45 mA with 0.94uF load
Cooling	Active
Operating Temperature	-20 – 35 C
Dimensions	55mm x 130mm x 200mm
Max Load	Within max current load limit, capacitive or resistive
Bandwidth with resistive load	10KHz 0-10V Sine wave Input/100Vpp Sine wave Output
Monitor Output	0-10V : 0-200V

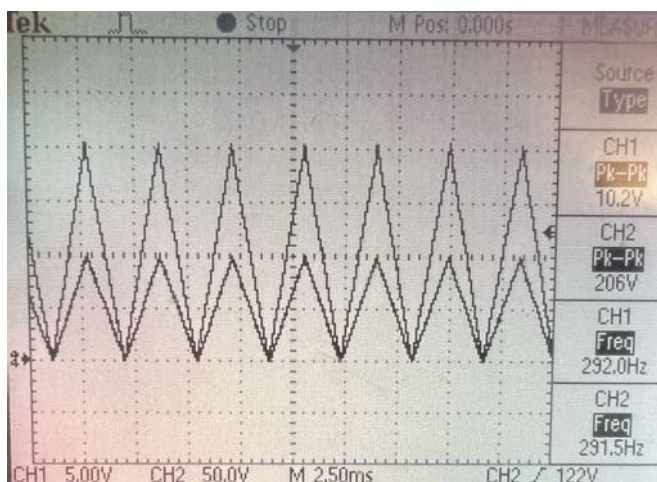
Sample Results:



0.94 uF Capacitive Load with 120Hz Triangle Wave, 200V Output, 12 hours running



0.47 uF Capacitive Load with 175Hz Triangle Wave, 200V Output



0.47 uF Capacitive Load with 292Hz Triangle Wave Input, 200V Output

Calculate Driving Current:

1. Modulate with Triangle Wave

$$I = \pm 2 \cdot f \cdot C_{\text{load}} \cdot V_{\text{pk-pk}}$$

For example, the max current for 120Hz triangle modulation on 0.94uF load, 200Vpk-pk equals: $2 \cdot 120 \cdot 0.94 \cdot 10^{-6} \cdot 200 = \pm 45 \text{mA}$



FRONT PANEL WIRING SPECIFICATIONS

SYS LED (UPPER)	ORANGE: OK, WEAK ORANGE/FLASHING: ABNORMAL
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PWR LED (LOWER)	GREEN: OK
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GAIN	GAIN ADJUSTABLE
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OFFSET	OFFSET ADJUSTABLE
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IN	0-10V SMALL SIGNAL BNC INPUT
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MON	0-10V : 0-200V MONITOR SIGNAL BNC OUTPUT
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HV OUT	0-200V/±45mA RMS HIGH VOLTAGE BNC OUTPUT
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REAR PANEL WIRING SPECIFICATIONS

24VDC	+24VDC Power Supply, RIGHT PIN +; LEFT PIN return
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ENA	EN: float or GND
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DISABLE: SHORT

CHAS	METAL ENCLOSURE, NO INTERNAL CONNECTION
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FUSE	5AMP, Consult Factor Before Replace
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PWR	POWER SWITCH
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Quotation on order of large quantity:

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