HIGH VOLTAGE PIEZO DRIVER (model A)

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

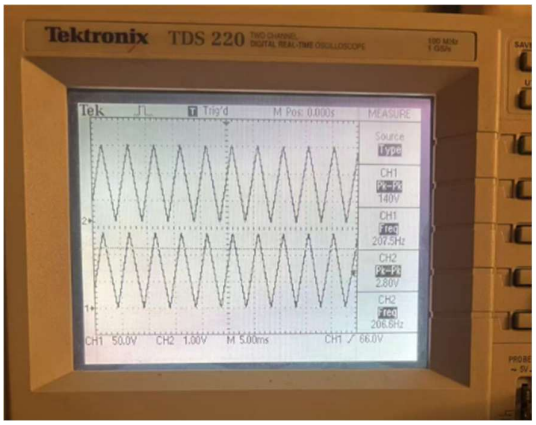
Active Cooling

All RoHS Components

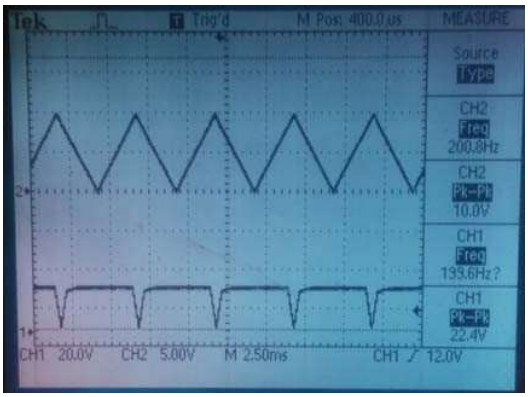
SPECIFICATIONS

Power Supply	+24V
Modulation Input	Analog Input 0-10V, offset adjustable, 2uF load max 200Hz Triangle Wave within driving current limit
Voltage Output	0-140Vpk-pk
Max Output Current	± 112 mA with 2uF load Triangle Wave
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	25KHz
Monitor Output	0-10V : 0-140V (1/50 ATTENUATION)

Sample Results:



2.43 uF Capacitive Load with 207Hz Triangle Wave Input



High Voltage Disable ON (ENA-RIGHT-PIN=+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

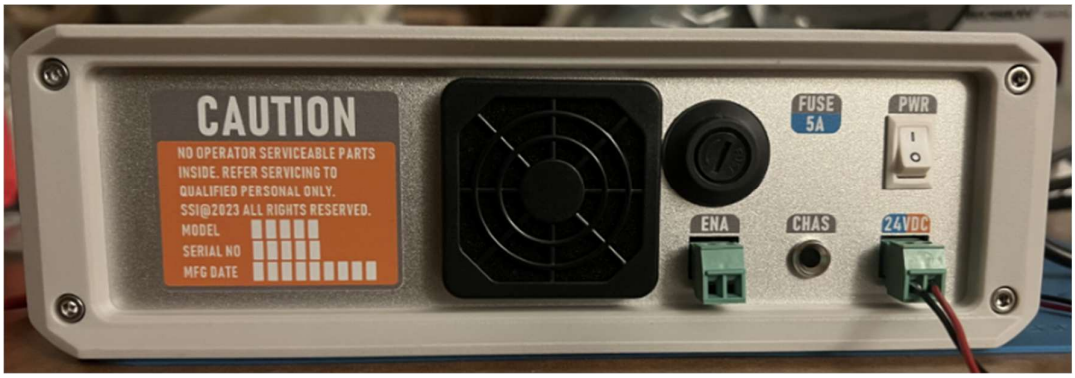
2. Modulate with Sine Wave

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

FRONT PANEL WIRING SPECIFICATIONS	
SYS LED (UPPER)	ORANGE: OK, WEAK ORANGE/FLASHING: ABNORMAL
PWR LED (LOWER)	GREEN: OK
GAIN	GAIN ADJUSTABLE
OFFSET	OFFSET ADJUSTABLE
IN	0-10V SMALL SIGNAL BNC INPUT
MON	0-10V : 0-140V MONITOR SIGNAL BNC OUTPUT (1/50 * Vout)
HV OUT	0-140V/+-112mA RMS HIGH VOLTAGE BNC



REAR PANEL WIRING SPECIFICATIONS	
24VDC	+24VDC Power Supply, RIGHT PIN +; LEFT PIN return
ENA DISABLE	EN: float or GND (LEFT PIN: Return) TIE RIGHT SIDE PIN TO +5V TO +24V
CHAS	METAL ENCLOSURE, NO INTERNAL CONNECTION
FUSE	5AMP, Consult Factor Before Replace
PWR	POWER SWITCH

Quotation on order of large quantity:

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