

High Voltage Analog Amplifier/Driver

(DC to 1MHz, +- 220V)

Product Description

This series of High Voltage Amplifier is designed to directly drive Electro-Optic Modulators, featuring: a large, ± 300 V output, a continuous current output of 100 mA, a wide DC-1MHz bandwidth, and low noise. An adjustable bias allows for an up to 50V DC offset control. The input amplifier includes a summing junction which allows an adjustable DC bias to be added to the input modulation. This composite signal is then boosted by an output amplifier. For added safety, a front panel HV Enable button must be pressed to connect the HV output to the output BNC. The output is automatically disabled each time the HVAP300 is powered on. The DC Bias control consists of a rotary encoder which allows precise control and repeatability. The bias adjustment is typically used to shift the DC level of the output as needed by the application. A voltage monitor output is provided to allow real-time monitoring of the high voltage output. The monitor has a scaling of 20:1 so that an output of 300 V results in a 30 V monitor voltage.



Performance Specifications

Parameter	Min	Typical	Max	Unit
Input Signal Voltage			± 10	V
Input Impedance		1000		Ω
Output Voltage	-220		+220	V
Output Impedance		50		Ω
Output Current (DC)			100	mA
DC Bias	0		50	V
Slew Rate			400	V/ μ s
Voltage Gain			20	
Voltage Gain Bandwidth	0		1	MHz
AC Power (50-60Hz)	110		230	V
Signal Input Connector		BNC		
Output Connector		BNC		
Operating Temperature	-5		40	$^{\circ}$ C
Storage Temperature	-45		85	$^{\circ}$ C

Features

- Easy to Use
- Low Cost
- Stable

Applications

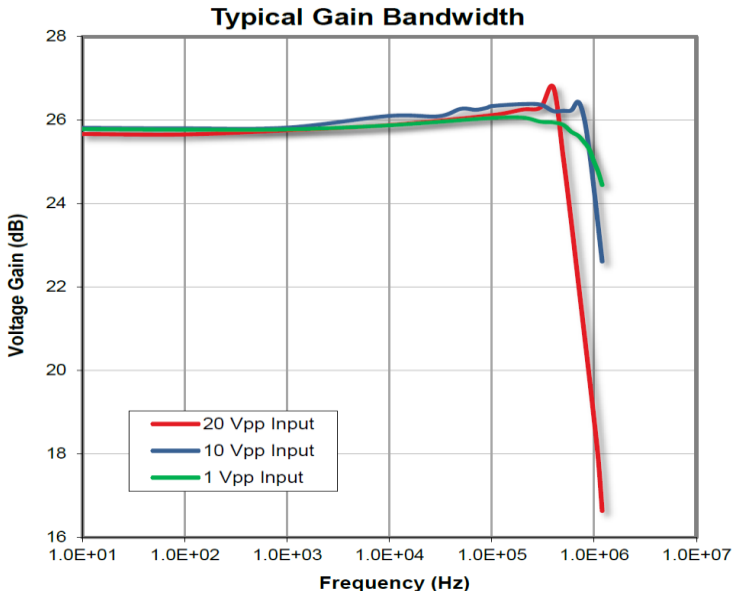
- Lab Tool
- OEM

Instruction

HV Output Warning

The HV output is capable of producing hazardous voltages and currents. The HV output will handle an accidental short circuit without damage, but the output should not be shorted continuously.

1. Attach the supplied AC power cord to the AC connector on the rear panel and plug into a suitable AC outlet.
2. Connect an EO-modulator to the HV Output connector on the front panel.
3. Connect a modulating signal to the Modulation Input connector on the front panel.
4. Turn the power switch on. At this point the amplifier is powered up but the HV Output is disabled. The power indicator should be illuminated. If not, check the AC fuse.
5. After confirming that all connections are correct and the operation environment is in a safe condition, the amplifier output can be enabled by pressing the HV Enable button on the front panel.
6. Adjust the amplitude of the modulation signal as needed.
7. The DC level of the output can be shifted by adjusting the DC Bias Adjust knob on the front panel.



Ordering Information

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Prefix	Type	AC Power Plug						
HVAP-	220V = 220	USA = 1 ER = 2						

Red color – Special order