



High speed DC – 10MHz high voltage laboratory amplifier

- -130V to +130V output voltage
- DC - 10MHz signal bandwidth
- 1400V/ μ s slew rate
- 300mA output current
- 40x gain
- 1:100 monitor out
- Stable with all capacitive loads
- Short-circuit protected output

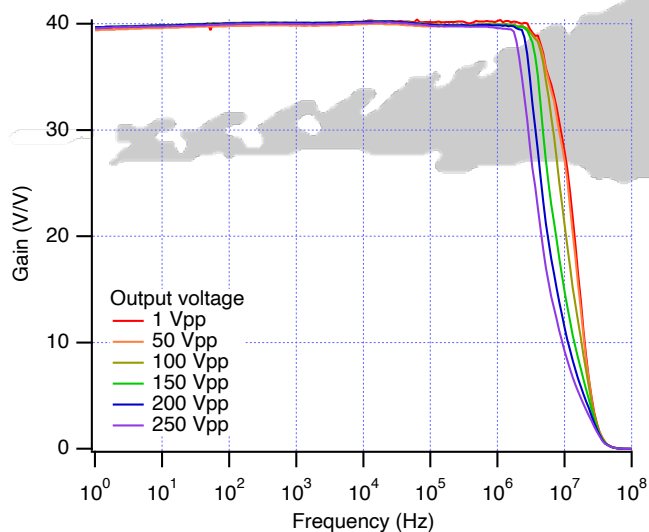


The WMA-300A/260 model is a high speed, high voltage amplifier designed to drive capacitive loads such as piezo actuators, MEMS devices and EO-modulators. Optimized for ultra-high speed, it enables experiments that demand rapidly changing high voltage signals.

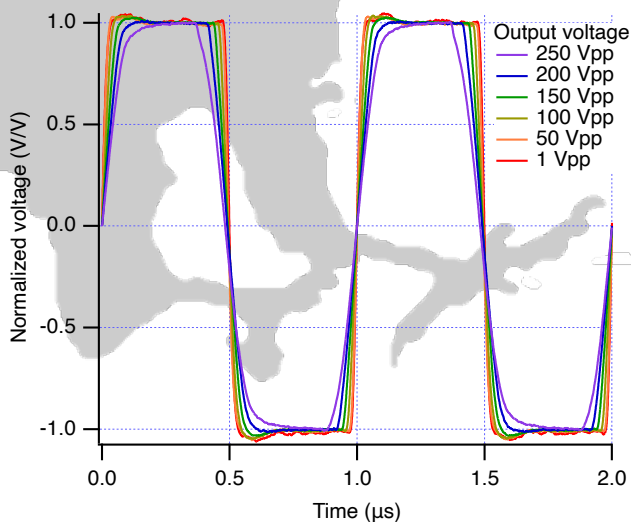
The amplifier has a 50 Ω BNC input to ensure accurate transfer of high-frequency signals like fast-rising steps and pulses. For monitoring and control purposes it is equipped with a monitor output which provides a 1:100 replica of the actual voltage at the output. The high voltage output signal of the amplifier is accessible via the BNC output connector on the front panel.

If a higher output voltage is needed, the Falco Systems WMA-IB-HS phase inverter - buffer can be added to drive two amplifiers in bridge mode. This doubles the output voltage, preserves the high bandwidth, and increases the slew rate to 2400V/ μ s.

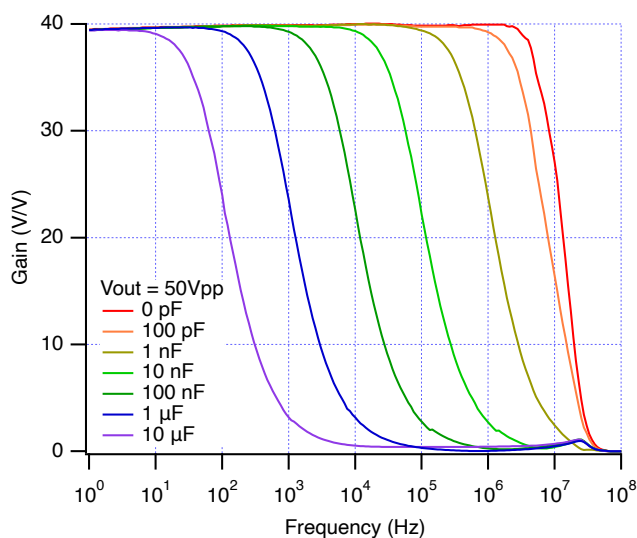
The complete WMA-300A series consists of four different output voltage models, including both unipolar and bipolar versions. This allows the selection of the best fit for every application. A LEMO adapter and other useful accessories are available to easily connect the amplifier to different loads.



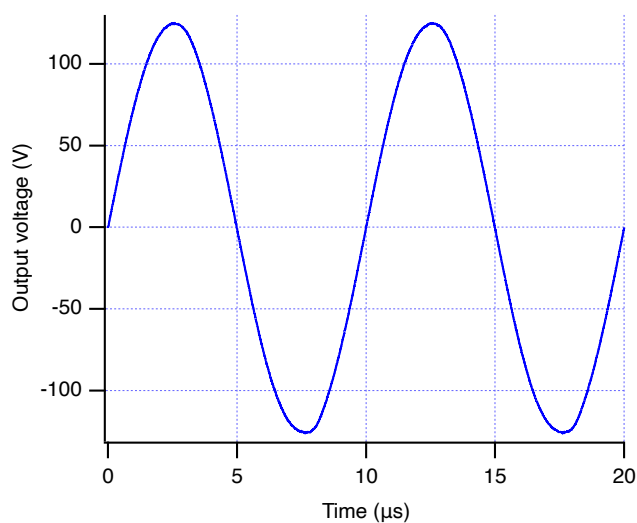
Frequency response



Step response



Frequency response for different capacitive loads



Sine wave full-swing output voltage response

Technical specifications WMA-300A/260 HV amplifier

Output voltage	-130V to +130V
Signal bandwidth	DC - 10MHz
Slew rate	1400V/μs
Output current	300mA continuous
Amplification	40x, fixed
Noise	~2.5mV _{rms}
Offset	±100mV typical
Mains voltage	115V or 230V
Dimensions	175 x 340 x 280mm
Weight	9.3kg
Country of origin	The Netherlands

Specifications may be subject to change



The WMA-300A model is available in 4 product versions:

- WMA-300A/360: -180V to +180V, 1200V/μs, 200mA
- WMA-300A/260: -130V to +130V, 1400V/μs, 300mA
- WMA-300A/180: 0 to +180V, 1200V/μs, 200mA
- WMA-300A/130: 0 to +130V, 1400V/μs, 300mA



Falco Systems (est. 2006) is a Netherlands-based innovative company that designs and manufactures technology leading high voltage amplifiers and preamplifiers for R&D departments, research institutes and universities worldwide. These amplifiers are used in precision engineering, electronics, physics, optics, chemistry, (aero)space engineering and metrology and control.