



Compact all-round high voltage amplifier

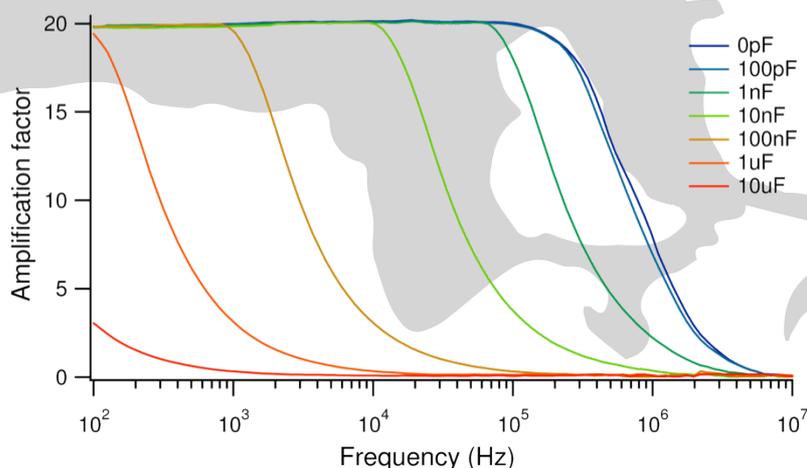
- -175V to +175V Output voltage
- DC to 500kHz @ -3dB large signal bandwidth
- Low output noise: $800\mu\text{V}_{\text{rms}}$ in DC - 1MHz
- Current: 100mA with current limit
- Stable with all capacitive loads, generates no overshoot
- DC offset control knob



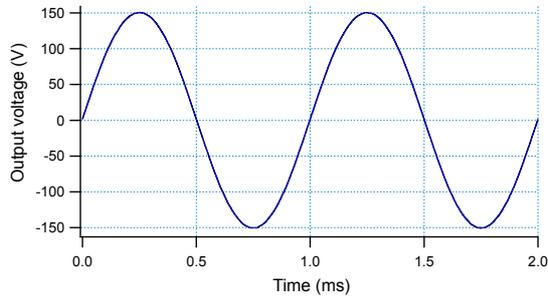
The WMA-100 is a compact all-round, general-purpose high voltage linear amplifier. It offers a wide output voltage range ($\pm 175\text{V}$), DC offset control, and impressive bandwidth (DC - 500kHz) and noise ($\sim 800\mu\text{V}_{\text{rms}}$) specifications. The amplifier generates no overshoot with any capacitive load. The short-circuit protection with a fast current limit make this amplifier suitable for both normal daily laboratory use and automated measurement systems.

Typical applications include the use of the WMA-100 amplifier as a high speed, low noise piezo driver, an amplifier for actuating MEMS devices, or for steering EO-modulators. It can also be used as a stand-alone low noise high voltage power supply.

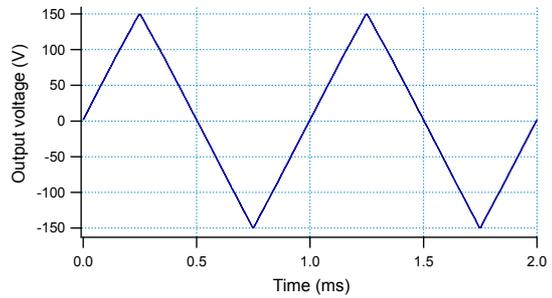
Combined with its modest price and small form factor, it is the ideal choice for many experiments that require a high quality and reliable high voltage amplifier.



Frequency response 300V_{pp} as a function of capacitive load



300Vpp 1 kHz sine wave output

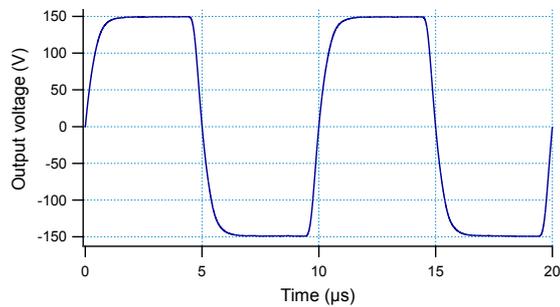


300Vpp 1kHz triangle wave output

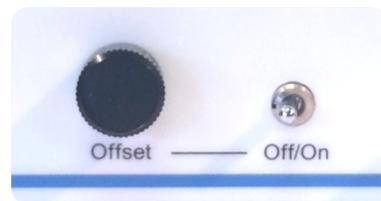
Technical specifications

- Amplification: 20x, fixed
- Output: -175V to +175V, 100mA typical with limiter
- Bandwidth: DC - 500 kHz @ -3dB large signal bandwidth
- DC offset control knob with on/off switch
- 800 μ V_{rms} output noise in DC - 1MHz typical, 70mV DC offset typical
- Input impedance: 100k Ω
- Stability: stable with all capacitive and resistive loads, no overshoot > 5%
- Power: 230V 50Hz AC, 50W or 115V 60 Hz AC, 50W
- Dimensions: 52 x 165 x 220 mm
- Weight: 2.5kg
- Country of origin: The Netherlands

Specifications may be subject to change



300Vpp 100kHz square wave output



DC offset control knob with on/off switch



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