



Falco Systems

WMA-100A DC - 500kHz HV amplifier

## Compact all-round high voltage amplifier

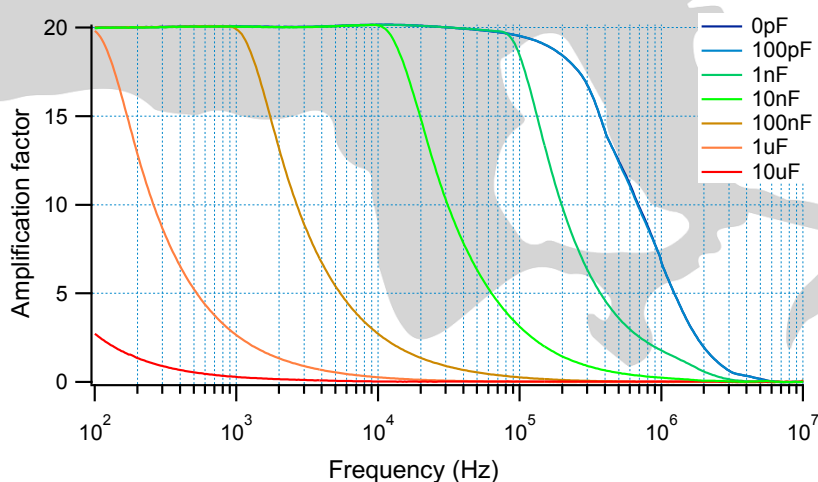
- -170V to +170V Output voltage
- DC to 500kHz @ -3dB large signal bandwidth
- Low output noise:  $840\mu\text{V}_{\text{rms}}$  in DC – 10MHz
- Current: 100mA with current limit
- Stable with all capacitive loads, generates no overshoot
- DC offset control knob



The WMA-100A is a compact all-round, general-purpose high voltage linear amplifier. It offers a wide output voltage range ( $\pm 170\text{V}$ ), DC offset control, and impressive bandwidth (DC - 500kHz) and noise ( $\sim 840\mu\text{V}_{\text{rms}}$ ) 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-100A 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.

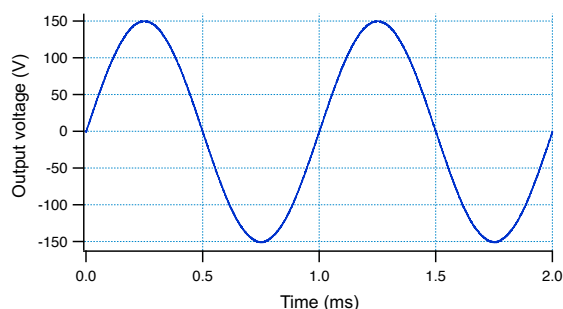


Frequency response  $300\text{V}_{\text{pp}}$  as a function of capacitive load

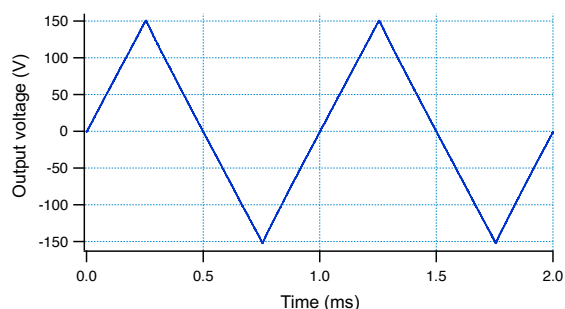


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## WMA-100A DC - 500kHz HV amplifier



300Vpp 1 kHz sine wave output



300Vpp 1kHz triangle wave output

### Technical specifications

Amplification: 20x, fixed

Output: -170V to +170V, 100mA typical with limiter

Bandwidth: DC - 500 kHz @ -3dB large signal bandwidth

DC offset control knob with on/off switch

840 $\mu$ V<sub>rms</sub> output noise in DC - 1MHz typical, 1mV DC offset typical

Input impedance: 100k $\Omega$

Stability: stable with all capacitive and resistive loads, no overshoot > 5%

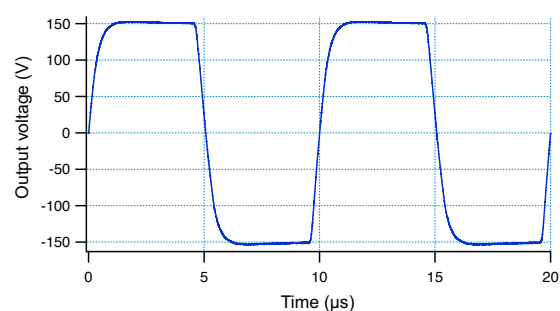
Power: 230V 50Hz AC, 50W or 115V 60 Hz AC, 50W

Dimensions: 52 x 165 x 240 mm

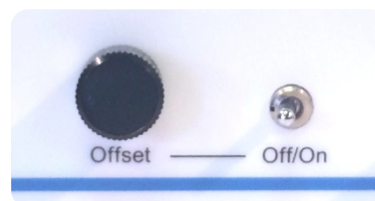
Weight: 2.5kg

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.

[www.falco-systems.com](http://www.falco-systems.com)