

FALCO 6105

Programmable AC Power Source

FEATURES:

Output:

- Voltage range: 5 to 600 Vrms
- Voltage output resolution: 50 mVrms
- Output Frequency:
 - 40Hz to 500Hz up to 300 Volts
 - 40 Hz to 300 Hz in 300-600 Volts range
- Frequency resolution: 0.05 Hz.
- Output power: 105 VA. Maximum current 350 mA.
- Dual output control modes:
 - High precision. 600 ms settling time
 - High speed. 50 ms settling time
- Dual output safety connectors.
- Programmable Voltage DIPS, Swell, Rapid Voltage Changes and Flicker.
- Programmable voltage, current limit.

Input:

- 100-240 V, 40-70 Hz.
- Low startup input current with electronic input control.

Usability:

- Front panel interface with high-visibility display.
- Easy to use remote operation software
- Isolated USB interface. Optional Ethernet interface. with built-in web server.
- Full protection: Short-circuit, Over Voltage, Over current and Over Temperature and input over-voltage.
- Quiet operation with electronic fan control

Dimensions and weight:

- Height: 140 mm.
- Width: 483 mm. (19")
- Depth: 260 mm.
- Weight: 5 kg.

Operational conditions:

- Temperature: -10°C to 45°C
- Humidity: < 80%
- altitude: 2500 m.

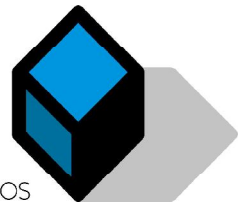
Storage Conditions:

- Temperature: -20°C to 80°C
- Humidity: < 90% non condensing
- altitude: 2500 m.

Calibration Interval: 1 year.

CESINEL

COMPañÍA ESPAÑOLA DE INSTRUMENTOS ELÉCTRICOS



The FALCO 6105 programmable AC power source provides a clean and regulated sine-wave in a compact design

FALCO 6105 is a precision AC power source designed and manufactured by Compañía Española de Instrumentos Eléctricos S.L. (CESINEL). It is suitable for testing and calibrating electrical measurement instruments, generating very clean and steady AC output voltage from 5 to 600V, with a frequency range of 40 to 500 Hz.

The operation of FALCO 6105 can be done via a versatile front panel with high visibility LCD display, keyboard and rotary knob. It is also possible to control the instrument remotely via the isolated USB interfaces offering improved safety and convenient operation.

As an option it is also possible to specify an Ethernet interface with TCP/IP and built-in web server enabling remote operation of the power source.

Other additional features include flicker simulation, voltage events and rapid voltage changes. All of these are generated in an accurate and versatile way with a wide range of output voltage (5 to 600Vrms) and frequency (40 to 500Hz).

Great emphasis has been placed on low acoustic noise, ease of use and installation, and high precision in output voltage and frequency.

FALCO uses two different control modes in order to ensure the correct output voltage.

High-precision control

This is the default control mode and is used in normal steady operation. It has higher accuracy but is slower than the high speed control mode.

High-speed control

This is the control mode that the instrument uses when generating electrical disturbances: flicker, Dips, Swells or Rapid Voltage Changes (RVCs). It is not as precise as the high precision mode but produces faster settling times.

The selection of the control mode is done automatically.

In addition to the steady output voltage and frequency programming, the FALCO 6105 AC Power Source provides powerful functions to simulate all kinds of power line disturbance conditions. The EVENT mode provides with an easy and convenient method to simulate a voltage Dip or Swell. Duration, Event voltage and event repetition rate are easily settable through the front panel as well as from the USB or Ethernet interfaces.

The Rapid Voltage Change (RVC) Mode extends this function by adding the possibility of a rise-time between the stationary and the event voltages

Finally, the FLICKER mode is perfect for simulating and testing Voltage Flicker according to EN-61000-4-15.



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