



HFC-III

Programmable harmonics & Flicker load

- Generate harmonic currents
- Generate Flicker patterns
- Analyze network impedance
- Verify & calibrate harmonic and Flicker compliance test systems



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SPECIFICATIONS

1.1 Electrical

Input power: 100 - 120 / 220 – 240 Volt 50/60 Hz, 2 amp rms max.

1.1.1 Controlled load:

Linear loads; from 23.5 - 320 Ohms, current from 0.7 ~ 9.8 amp @ 230 Volt

Phase controlled loads; from 32 - 320 Ohms, current from 0.2 ~ 7.2 amp @ 230 Volt

Total current capability; > 16 amp rms @ 230 V

On/Off Phase control: from 1 – 179 ° via front panel and computer interface

Max. dissipated power; 3700 Watt continuous @ 230 Volt

1.1.2 Phase control, Analog - Digital I/O system - Measurement

Phase control: Symmetrical control for positive and negative half cycles, Resolution +/- 0.01 ° - accuracy better than +/- 0.2 °

Start/stop angles: Current flow start/stop controllable from 3 ° to 179 °

V-rms panel meter 3.00 – 300.00 V rms, +/- 0.1 % +/- 0.05 Volt.

I-rms panel meter 1.000 – 20.000 Amp rms, +/- 0.3 % +/- 5 mA

Frequency panel meter 0.017 – 35.000 Hz, +/- 0.002 Hz

Phase angle meter Start/Stop phase 0.00 – 180.00 degrees

Timing output: TTL signal with “low/high” levels, modulation frequency x 512

Voltage output: 1 V/100V (100:1) - accuracy; +/- 0.1 % +/- 2.3 mV, 40 – 4,000 Hz

Current no. 1, +/- 5 Amp: 1.0 Volt/amp – accuracy; +/- 0.1 % +/- 1 mA, 40 – 10,000 Hz

Current no. 2, +/- 50 Amp: 0.1 Volt/amp – accuracy; +/- 0.1 % +/- 10 mA, 40 – 10,000 Hz

A/D card interface: USB-2 compliant

1.2 PC control & measurement software (option)

Control loads & perform harmonic analysis from Windows-7/8/10 PC, via built-in USB A/D card (16 bit)

1.3 Mechanical

Dimensions: 16 x 8.75 x 22 inches (W x H x D) -

Weight: approximately 24 Kg (53 Lb)

Shipping weight: approximately 35 Kg (77 Lb) including re-usable shipping container