



EMSYST



Certificate HU03/0186

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Portable Three-phase Phantom Load

EE-120A-3 + EE-500V-3



NEW!

**The device is offered now
with 5" color display**

General

The Phantom Load consists of two units:

- Unit 1 – EE-120A-3 – Three-Phase Current Generator up to 120A
- Unit 2 – EE-500V-3 – Three-Phase Voltage Generator controlled from unit 1 via RS485

The Phantom Load is able to generate three-phase voltages and currents with unprecedented stability and measurement accuracy. The amplitude and phase-shift of each current and voltage is individually adjustable. The generated values of voltage, current, power, power factor, phase shift, THD and frequency are indicated on the LCD display.

Advantages

- **Flexible structure** – the current generator can be used alone for on-site measurements, generating current synchronized with the available service voltage.
- Two generation modes – **Manual mode and Test Plan mode are at Operator's disposal**. The Test Plan mode is used for easy change of load parameters, using only one panel keypad button. 100 Test Plans can be predefined by the Operator, each one with 12 test points.
- The **unique stability and measurement accuracy** make the phantom load suitable for testing not only electricity meters, but also other measuring devices in a substation like amp-meters, volt-meters, power and power factor meters.
- The phantom load **can be controlled from a PC**, using EE Software (operating under Windows7,8, XP and later versions). If the PC control is been used, then additional functions are available, such as generation of harmonics to the 31st, vector diagram and wave form display.
- The EE-120A-3 unit can be upgraded with new firmware, which allows the integrated energy standard (class 0.04) to be used for testing electricity meters, thus forming an independent Test System.

Technical Data

General

Power Supply:
 Power Consumption:
 Dimensions WxDxH:
 Weight:
 Housing:
 Operation temperature range:
 Color LCD Display:
 Relative humidity:
 Safety Tests:
 Degree of protection:
 Overvoltage Category:
 Declaration of Conformity:

EE-120A-3 (Current Source)

85...265V AC, 47...63Hz
 max 300VA
 465x355x175 mm
 13 kg
 Rugged plastic case
 -10°C...+50°C
 640 x 480 pixels
 <95 % non condensing
 IEC61010-1-2002
 IP-20 (opened), IP-65 (closed)
 300V, Cat III (600V Cat II)
 CE Conform

EE-500V-3 (Voltage Source)

85...265V AC, 47...63Hz
 max 150VA
 400x330x160 mm
 10 kg
 Rugged plastic case
 -10°C...+50°C
 -
 <95 % non condensing
 IEC61010-1-2002
 IP-20 (opened), IP-65 (closed)
 300V, Cat III (600V Cat II)
 CE Conform

Three-Phase Load

Ranges (per phase):
 Output Power (per phase):
 Accuracy (100%...0.3% of range):
 Accuracy (< 0.3% of range):
 Stability:
 Harmonic Distortion:
 Phase Shift (for each phase):
 Frequency (for all phases):
 Bandwidth:

EE-120A-3 (Current Source)

1 mA...12 A (max.1.5V)
 10 mA....120 A (max.0.5V)
 60VA max.
 <±0.04 % (of measured value)
 <±0.04 % (of max. value)
 <0.03 %
 <0.8 %
 0.0° ...359.9° (step 0.1°)
 45...100Hz (step 0.1Hz)
 30...2000Hz

EE-500V-3 (Voltage Source)

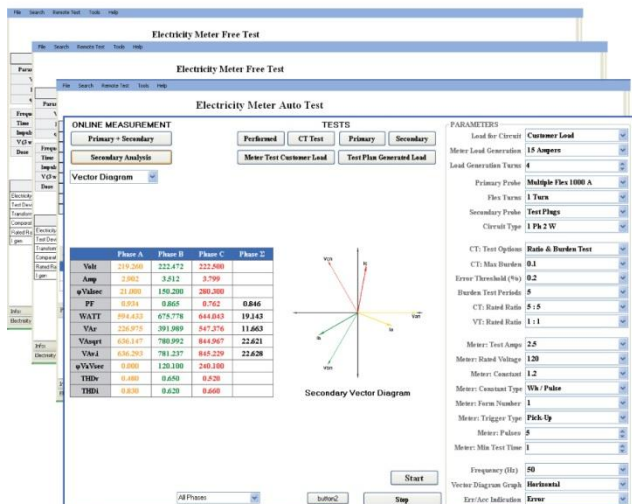
500V (0.06A); 300V (0.12A)
 150V (0.24A); 75V (0.48A)
 36VA max.
 <±0.04 % (of measured value)
 <±0.04 % (of max. value)
 <0.03 %
 <0.8 %
 0.0° ...359.9° (step 0.1°)
 (V_A is always 0.0°)
 45...100Hz (step 0.1Hz)
 30...2000Hz

Three-Phase Standard

Measuring Quantities:
 Measuring Modes:

Volts, Amps, Phase Shift, P, Q, S, THD, PF, Frequency
 1 Phase 2 Wire, 3 Phase 3 Wire Delta, 3 Phase 4 Wire Wye

PC Screens



LCD Panel Screens

