



# EMSYST



Certificate HU03/0186

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## Portable Three-Phase Current Source

**EE-120A-3 or EE-20A-3**



**NEW!**

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

### General

The Portable Three-Phase Current Phantom Load consists of one unit. Two versions are offered for sale:

- EE-120A-3 – Three-Phase Current Source up to 120A on each phase;
- EE-20A-3 – Three-Phase Current Source up to 20A on each phase.

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

### Advantages

- 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 load values.
- 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, 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). In this case, additional functions are available, such as generation of harmonics to the 31<sup>st</sup>, 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. Optionally a Voltage generator up to 500V could be ordered, which is controlled from EE-120A-3 via RS485 interface.

# Technical Data

## General

Power Supply:	85...265V AC, 47...63Hz	85...265V AC, 47...63Hz
Power Consumption:	max 300VA	max 200VA
Dimensions WxDxH:	465x355x175 mm	465x355x175 mm
Weight:	13 kg	12 kg
Housing:	Rugged plastic case	Rugged plastic case
Operation temperature range:	-10°C...+50°C	-10°C...+50°C
Storage temperature range:	-20°C...+60°C	-20°C...+60°C
Relative humidity:	<95 % non condensing	<95 % non condensing
Safety Tests:	IEC61010-1-2002	IEC61010-1-2002
Degree of protection:	IP-20 (opened), IP-65 (closed)	IP-20 (opened), IP-65 (closed)
Overvoltage Category:	300V, Cat III (600V Cat II)	300V, Cat III (600V Cat II)
Declaration of Conformity:	CE Conform	CE Conform

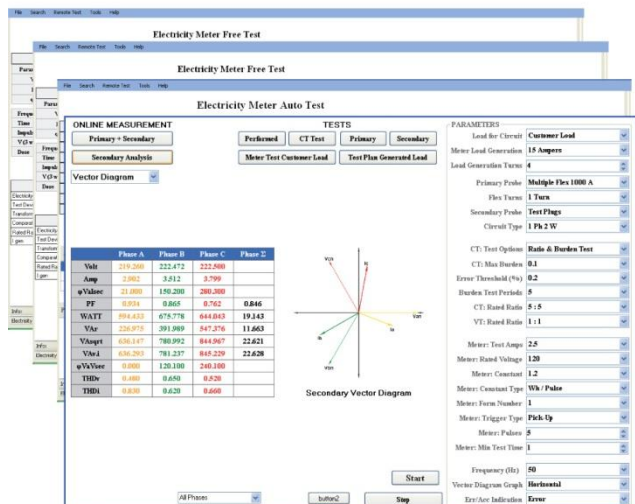
## Three-Phase Load

Ranges (per phase):	1 mA...12 A (max.1.5V) 10 mA....120 A (max.0.5V)	1 mA...20 A (max.2.0V)
Output Power (per phase):	60VA max.	40VA max.
Accuracy (100%...0.3% of range):	<±0.04 % (of measured value)	<±0.04 % (of measured value)
Accuracy (< 0.3% of range):	<±0.04 % (of max. value)	<±0.04 % (of max. value)
Stability:	<0.03 %	<0.03 %
Harmonic Distortion:	<0.8 %	<0.8 %
Phase Shift (for each phase):	0.0° ...359.9° (step 0.1°)	0.0° ...359.9° (step 0.1°) (V <sub>A</sub> is always 0.0°)
Frequency (for all phases):	45...100Hz (step 0.1Hz)	45...100Hz (step 0.1Hz)
Bandwidth:	30...2000Hz	30...2000Hz

## Three-Phase Standard

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

## PC Screens



## LCD Color Screens on the Panel

