



# TESTMET, Inc.

*Innovation in Utility Testing Solutions™*

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## Portable Three-Phase Current Loads

**EE-60A-3 or EE-20A-3**



### General

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

- **EE-60A-3 – Three-Phase Current Source up to 60A 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 color LCD display. The current load is able to control a voltage generator as an option.

### 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 generate harmonics (up to 19<sup>th</sup> harmonic) without need of a PC**
- The phantom load **can be controlled from a PC**, using EE Software (Windows XP, 7, 8, 10 )
- A voltage source to 500Vac in a separate case can be ordered additionally.

# Technical Data

## General

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Power Supply:                | 85...265V AC, 47...63Hz        | 85...265V AC, 47...63Hz        |
| Power Consumption:           | max 300VA                      | max 200VA                      |
| Dimensions WxDxH:            | 18.3"x14"x7"                   | 18.3"x14"x7"                   |
| Weight:                      | 28.7 lbs                       | 26.5 lbs                       |
| Housing:                     | Rugged plastic case            | Rugged plastic case            |
| Operation temperature range: | 15°F...+115°F                  | 15°F...115°F                   |
| Storage temperature range:   | -4°F...+140°F                  | -4°F...+140°F                  |
| 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)    |

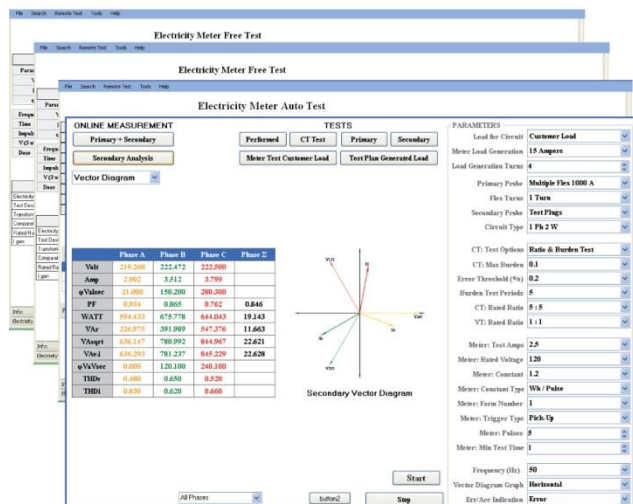
## Three-Phase Load

|                                  |                              |                                                              |
|----------------------------------|------------------------------|--------------------------------------------------------------|
| Ranges (per phase):              | 10 mA...60 A (max.1.5V)      | 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°)<br>(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

## PC Screens



## LCD Color Screens on the Panel

