



TESCO METERING

Reliable Results. Every Meter. Every Time.

## Product Information Sheet



925 Canal Street, Bristol, PA 19007

• 215.228.0500

• tescometering.com

## Field Equipment

### Catalog No.

# 6440

## Three-Phase Voltage Synthesizer

### PRODUCT INTRODUCTION

The TESCO Three-Phase Voltage Synthesizer (6440) provides a portable, selectable, voltage source designed to provide accurate three-phase voltage for meter testing, commissioning, and site verification when utility voltage is undesirable.

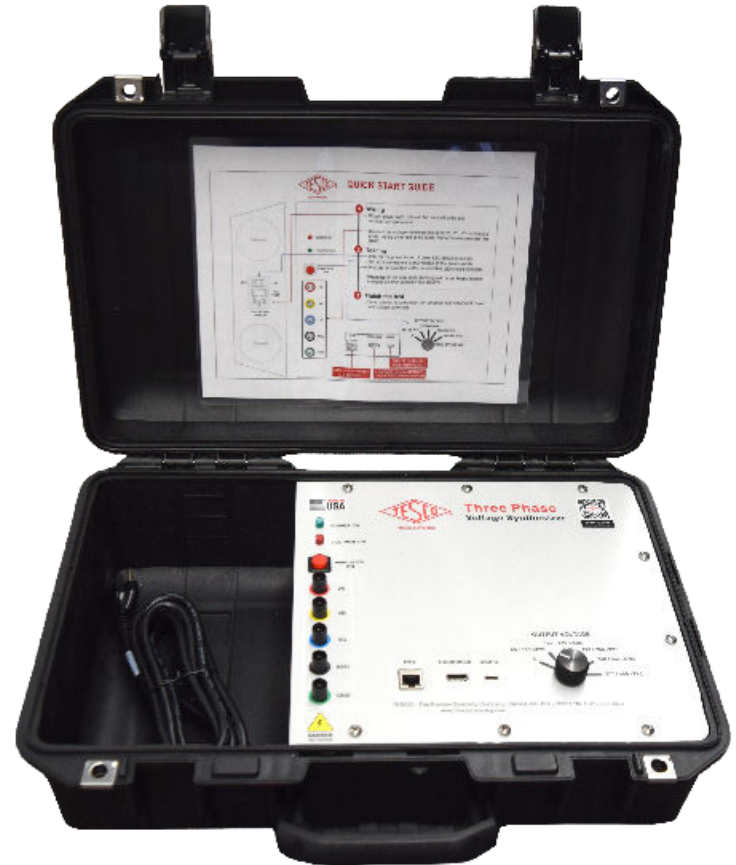
The TESCO 6440 generates isolated, low-distortion voltage outputs from 69V to 480V AC with  $\pm 0.5\%$  voltage setting accuracy, enabling technicians to verify meter performance, validate installations, and perform intertie testing without relying on live system voltage.

When used together, TESCO's 6440 and 6330 Meter Site Analyzer provide a complete solution for intertie meter testing, commissioning, and site verification.

The 6440 provides an isolated three-phase voltage source that powers both the meter and test switch during testing. The unit can be powered from a standard 120 VAC wall outlet using the supplied power cord or directly from the site using the field power cord, allowing technicians to perform testing in a variety of field environments.

The 6330 Meter Site Analyzer measures meter voltage, current, phase angle, burden, harmonics, and overall metering accuracy. The unit performs complete site testing and can provide selectable test current from 0 to 5 amps directly to the meter.

Together, the 6440 supplies the voltage source while the 6330 measures and verifies system performance, creating a portable



field solution for testing revenue meters, intertie installations, and other complex metering applications.

### AT-A-GLANCE SUMMARY

- **Accuracy:**  $\pm 0.5\%$  voltage setting accuracy from no load to 100VA per phase ensures dependable intertie verification.
- **Innovation:** Digitally controlled, fully isolated Class-D amplifier system with FPGA-driven DACs for precision voltage synthesis.
- **Responsiveness:** Designed directly from VOC (Voice of Customer) to solve an emerging need in intertie testing.



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### SPECIFICATIONS

#### ELECTRICAL

**Voltage Output:** 69V – 480 volts AC, 100 VA per phase isolated output

**Voltage Setting Accuracy:** 100VA  $\pm$  0.5%

**Total Harmonic Distortion:** < 3%

**Aux Power Input:** 85 – 305 VAC, NEMA 5-15 Power Cord

**Protection:** 10A Fused (5x20mm)

**Frequency:** 50/60 Hz

**Topologies:** 69/120 WYE, 120/208 WYE, 120/240 DELTA, 277/480 WYE, 240/480 DELTA

#### MECHANICAL & ENVIRONMENTAL

**Operating Temp:** -10F to 140F

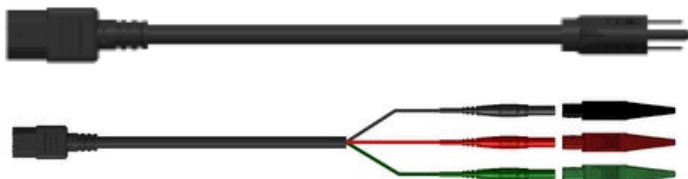
**Case Size:** 18.2" x 13.9" x 6.7"

**Weight:** 24.8 lbs.

- Safety fuses, surge protection, PE chassis ground
- Fan-cooled, ruggedized for field environments

### INCLUDED ACCESSORIES

- **Included:** Power Cord and Field Test Power Cord



### ADDITIONAL ACCESSORIES

#### Voltage Cable Set

Select a voltage cable set:

Three-phase neutral, phases are fused, terminated in safety 4mm plugs, 1000Vmax.

1. VCO-6330-002: 6.56 FT. Length
2. VCO-65330-003: 9.84 FT. Length



Select a test clip for voltage:

1. VTO-6330-001: Test Clips, 4mm socket to Dolphin, CAT 111/1000V, pack of 4: black, red yellow, blue.

2. VTO-6330-002: Test Clips, 4mm socket to XCHL EZ-Hook, pack of 4: black, red yellow, blue.

3. VTO-6330-003: Test Clips, 4mm socket to Crocodile, CAT 111/1000V, pack of 4: black, red yellow, blue.



### OPTIONAL ACCESSORY

#### Handheld Interface Device (THD-100)

Handheld allows user to set custom voltage and phase angle.



### ORDERING INFORMATION

- **Catalog Number:** 6440
- **Warranty:** 1 Year (Contact your TESCO Sales Representative to inquire about our Diamond Level Support for extended warranty coverage).



6440