

Electric Vehicle Supply Equipment

Catalog No.

ACT-100

EVSE Test System Product Specifications

The ACT-100 is a true three-phase AC reference standard and digital waveform generator in a rack. The unit boasts three independent voltage channels and three independent current channels for both the reference standard and synthesizer. The ACT-100 is used to efficiently calibrate TESCO EVSE Test equipment.

SPECIFICATIONS

Digital Waveform Generator Capabilities:

- **Three voltage and three current channels**
- **Synthesizer:**
 1. Fundamental frequency adjustable from 45 to 65 Hz
 2. 0.01 Hz resolution
 3. Sinusoidal (THD < 0.4%) (< 0.1% typical)
 4. ANSI harmonics and custom harmonics
- **Current:**
 1. 0.1A – 100A rms
 2. 0.01A adjustment increment
 3. 0° – 360° phase
 4. 0.001° phase adjustment increment
 5. Accuracy 0.2%
 6. Compliance voltage: 1V
 7. Open circuit protection

- **Voltage:**
 1. 30V – 350V Line to Neutral
 2. 0V – 700V Line to Line
 3. 0.01V adjustment increment
 4. 0° – 360° phase
 5. 0.001° phase adjustment increment
 6. Accuracy 0.2%
 7. Output Power: 100VA
 8. Short circuit protection

Integrated Reference Standard:

- **Three voltage and three current channels**
- **Measurement accuracy:** (60 Vac – 350 Vac, 0.25 Aac – 80 Aac, @ 60Hz, @ 1.0 Power Factor)
 1. Phase: $\pm 0.01^\circ$
 2. Real Energy $\pm 0.04\%$
 3. Apparent Energy $\pm 0.04\%$
 4. Reactive Energy $\pm 0.04\%$
- **Measures to the 50th Harmonic**
- **Time domain and frequency domain measurements**

PHYSICAL

- **Size:** 25.54”L x 25.62”W x 75.5”H. 15” shelf
- **Screen:** 21” screen
- **Main Power Break**



TESCO METERING

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- **Cabling:**
 1. ACT-100 - DB9 pulse cable
 2. ACT-100 – CCS1 AC calibration cable
 3. ACT-100 – NACS AC calibration cable
 4. ACT-100 – AC return cable
 5. ACT-100 – External reference calibration

INPUT

- 120V, 8A, 60Hz
- Ethernet cable for network connectivity
- DB9 header for calibration and synchronization with device under test

CALIBRATION INTERFACE

- Connectors for calibration and return cabling
- RJ45 jack for communication with device under test

