



SPECIFICATIONS

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| Power Requirements | 115 VAC 60 Hz @ 4 Amperes Maximum 230 VAC 50 Hz @ 2 Amperes Maximum |
| Operating Environmental Range | Temperature: 25°C ±5°C Humidity: 10-90% non-condensing Altitude: 0-8000 ft. |
| System Components | 2654-FD Waveform 1/5 Driver Module 2654-AEC Waveform 1 Cable Bundle Network 2654-FEP Waveform 5A Pin Injection Network 2654-B Waveform 2 Module 2654-C Waveform 3A Module (1 MHz) 2654-D Waveform 3B Module (10 MHz) 2654-ED Waveform 4 Driver Module 2654-EEC1/2 Waveform 4 Cable Bundle Network for Level 1, 2, and 3 testing 2654-EEC3 Waveform 4 Cable Bundle Network for Level 3 Single-Stroke testing 2654-EEP Waveform 4 Pin Injection Network 2654-AEC Waveform 1 Cable Bundle Network 2654-BL Blank |
| Supporting Equipment | 9616-2 Injection Probe for Waveform 1 9127-1 Injection Probe for Waveform 2 9127-1 Injection Probe for Waveform 3A 9127-1 Injection Probe for Waveform 3B 9616-2 Injection Probe Waveform 4 (two required) ██████ Resistive Current Monitor 2654-1M Coaxial Cable with Banana connectors 2654-██████ Coaxial Cable with Banana & N connectors 9117-5-TS-50-N 50-Amp LISN 2709-33K 33,000 µF Capacitor |
| Dimensions | .16.3cm (6.4")H x 51.3cm(20.2")W x 50.5cm (19.9")D |
| Weight | 57 Lbs./26 Kg (All module slots filled.) |

| DO-160 Waveform Number | System Waveform Modules – 2654- | External Networks – 2654- | Output Waveform Timing | Transient Format* | Pin Injection Level | Cable Bundle Level | Ground Injection Level |
|------------------------|---------------------------------|---------------------------|---------------------------|-------------------|---------------------|--------------------|------------------------|
| 1 | FD | AEC | 6.4/69 μ s | SS, MS | N/A | 1 – 3 | 1 – 3 |
| 2 | B | N/A | \leq 100 ns/6.4 μ s | SS, MS | N/A | 1 – 3 | 1 – 3 |
| 3A | C | N/A | 1 MHz Sine | SS, MS, MB | 1 – 3 | 1 – 3 | N/A |
| 3B | D | N/A | 10 MHz Sine | SS, MS, MB | 1 – 3 | 1 – 3 | N/A |
| 4 | ED | EEC1/2, EEC3, EEP | 6.4/69 μ s | SS, MS | 1 – 3 | 1 – 3 | 1 – 3 |
| 5A | FD | FEP | 40/120 μ s | SS, MS | 1 – 3 | N/A | N/A |

SS = Single-Stroke, MS = Multiple-Stroke, MB = Multiple-Burst.

System Component Table: Combinations of modules, networks, transients, and injection methods.

NOTICE TO USERS

This instrument complies with the requirements of ISO 61010-1, an international safety standard developed for laboratory equipment. This standard requires that components used in this instrument meet appropriate mechanical, electrical, and thermal specifications and that they be applied appropriately in the design. It also requires construction practices which ensure that the user is protected from hazardous voltages, components, and electrical and magnetic fields.

The user must also bear in mind that this instrument produces discharges that simulate the effects of lightning. Some hazards are therefore unavoidably present whenever this instrument is used. Waveforms with energies exceeding 700 Volts at very low source impedances can appear at module terminals. Connections to these terminals may be exposed during pin injection tests. Moreover, these energies may be delivered very efficiently to Equipment Under Test, making wiring harnesses, support components, and the Equipment itself dangerous to touch.

Please exercise caution while connecting and using this instrument.

PRECAUTIONS

- ▶ Always observe high-voltage precautions while operating this instrument.
- ▶ Do not touch or attempt to adjust the generator or EUT wiring while the generator is in operation.
- ▶ Do not attempt to defeat the safety interlocks provided in this generator.
For maximum safety, it must be operated only with all of the panels and modules in place.