

MegaPulse Power Line: TIA-968-A Power Line Surge Tester

FAST - SAFE - RELIABLE



POWER LINE SURGE TEST GENERATOR

Surge testers built to test to the requirements of TIA-968-A, Sec. 4.2.4, Power Line Surge. The surge has voltage and current waveforms with a front time of 2uSec maximum and a decay time of 10uSec minimum. The peak output voltage of 2500V is set on the front panel meter. The peak short current peak is 1000 A minimum. The polarity can be reversed by a switch on the front panel allowing the required surges to be applied to the EUT. CDN (not supplied) is required.

**COMPLIANCE
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FEATURES

MegaPulse Power Line

2500V adjustable output to perform tests noted in TIA-968-A, Sec. 4.2.4, Power Line Surge. The output of this tester is specifically designed for this testing. The voltage and current waveforms have a risetime of 2uSec maximum and a decay time of 10uSec minimum. Minimum voltage waveform peak is 2500V, and minimum current waveform peak is 1000A. The front panel meter shows peak output voltage and is adjustable by a front panel knob. The virtual output impedance of the MegaPulse Power Line is 2.5 ohms.

The MegaPulse Power Line ships with cables, graphs of theoretical and actual waveforms, and a Calibration Certificate. One year warranty. One year calibration cycle.

Note: The MegaPulse Power Line must be used with a CDN (not supplied).

SPECIFICATIONS

- Model: MegaPulse Power Line.
- Complies with the requirements of TIA-968-A, Sec. 4.2.4.
- Voltage open circuit: 2500V
- Meter Voltage Peak Reading Accuracy: +/- 3%, No load voltage waveshape 2x10uSec.
- Voltage Pulse front time: 2us maximum (1.67 times between 30% and 90%), per Fig. 4.2.
- Voltage Pulse time to half value: 10us minimum, per TIA-968-A, Fig. 4.2.
- Current Pulse front time: 2us maximum (1.25 times between 30% and 90%), per Fig. 4.3.
- Current Pulse time to half value: 10us minimum, per TIA-968-A, Fig. 4.3.
- Internal virtual resistor: 2.5 ohms.
- Polarity: Pos / Neg.
- Trigger: Manually or PC automation. (optional)
- Lead time: 6- 8 weeks.
- Input Power: AC120V / 60 Hz. (other optional)
- Weight: 20 lbs.
- Dimensions: 3U x 17" x 17"

ENVIRONMENTAL

Operating temperature: 15-40 C

Relative Humidity Range: 0-90% non-condensing

AVAILABLE OPTIONS

- Option TMM: TestMinder Computer Control.
- Option 240: 240V 50/60 Hz operation.
- CDN 240/8: For EUT mains up to 240V 8A.
- CDN 240/15: For EUT mains up to 240 15A

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