

Surge Testers

MegaPulse 968-B Power Line



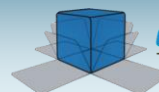
TIA-968-B Power Line

Surge tester built to deliver the pulse described in TIA-968-B, Section 4.1.4.1, Power line surge. The tester has a voltage waveform in accordance with TIA-968-B Figure 2, with a front time (t_f) of $1\mu s$ minimum to $2\mu s$ maximum, and a decay time (t_d) of $10\mu s$ minimum to $19\mu s$ maximum, when delivered into an open circuit. The current waveform is in accordance with TIA-968-B Figure 3, with a front time (t_f) of $1\mu s$ minimum to $2\mu s$ maximum, and a decay time (t_d) of $10\mu s$ minimum to $19\mu s$ maximum into a short circuit. The peak voltage can be set to 2500V minimum to 2750V maximum using the knob on the front panel, and it presents a peak short circuit current of 1000A minimum to 1250A maximum.

The voltage surges require polarity change and this is accomplished by pressing a front panel switch. This is a powered test. To be properly delivered, the Megapulse Power Line must be used with a suitable coupling decoupling network (CDN) which delivers the pulse to the device under test and protects the power source from it. Compliance West offers suitable CDNs devices up to 8A, and also larger version for devices up to 15A.

Features

- Up to 2750V test peak voltage.
- Front panel voltage meter indicates output peak voltage.
- Output voltage and polarity are controlled manually from the front panel.
- Ergonomically designed for safety, speed and efficiency.
- Cables, manual and calibration certificate included.
- External Safety Interlock disables HV charge and defeats test when circuit is open.
- Optional USB Testminder, computer control allows test plans and stores results.
- One year calibration cycle.
- One year warranty.



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Specifications

Voltage waveshape reference TIA-968-B Fig. 2 (open circuit)

Output Peak voltage at 2500V:	2500V minimum to 2750V maximum
Voltage Rise Time:	1 μ s minimum to 2 μ s maximum
Voltage Duration Time:	10 μ s minimum to 19 μ s maximum
Voltage Control:	Knob or optional USB computer control

Current waveshape reference TIA-968-B Fig. 3 (short circuit)

Output Peak current at 800V:	1000A minimum to 1250A maximum
Current Rise Time:	1 μ s minimum to 2 μ s maximum
Current Duration Time:	10 μ s minimum to 19 μ s maximum
Internal Virtual Impedance:	2.5 Ω
Voltage Display:	4 digit LED display
Voltage Meter Accuracy:	1% of reading \pm 10V
Duty Cycle:	60 Seconds
Line Voltage:	120V AC, 50/60Hz *optional different line voltage

Megapulse Power Line must be used with a CDN, not supplied.



Environmental

Operating Temperature:	15-40 °C
Relative Humidity Range:	0-90% non-condensing



General

Dimensions:	17" wide x 3U high x 17" in deep
Weight:	30 lbs approx.
Product Package:	<ul style="list-style-type: none">• Megapulse tester• Megapulse product manual• One High Voltage Test Lead (White/Black), 3 feet• One High Voltage Test Lead (white/Red), 3 feet• NIST traceable calibration certificate to ANSI Z540• Calibration waveforms



Options

TMM:	Testminder USB computer interface software. The tester can be controlled with a computer. It can also be set to automatically follow test sequences varying test voltage and time between tests and keep a record with test information. Compatible with Windows 32/64 bit platform.
220, 230 or 240:	If a different line voltage is desired, 220 is for 220V, 230 for 230V and 240 for 240V.
CDN option:	From 120V to 240V, 8A to 15A capability. Call for more information.

