Surge Testers

Megapulse 1.2x50-16PF PV

1.2x50 waveform output, 800–16kV; 10-180nF

The MegaPulse 1.2x50-16PF PV Solar Panel Tester was specifically designed to test to the requirements of IEC 61730-2, Test MST 14, Impulse Voltage Test. In light of the ever-increasing mains voltages of panel installations, we provide test voltages of up to 16kV, and an in-tolerance waveform into panel capacitances of up to 180nF. Our breakthrough technology requires only one tap, which saves test time and possible errors in delivering an out-of-specification waveform by using the wrong tap, or because of errors in measuring the panel capacitance. A single tap makes for a simpler, more robust build, and simplifies calibration and repair tasks.

Built in the USA. Email and phone support free for life. Reasonable repair and calibration charges. Timely and helpful customer service always.

Complies with IEC 61730-2 Para 10.5.3 and proposed IEC 61730-2 Issue 2 tolerances for a 1.2x50 waveform when testing a PV panel at up to 16kV with a capacitance range from 10nF – 180nF, an increase of 60% in voltage output and 66% in in-tolerance range from our previous tester. With the new TestMinder PF computer control which allows the output voltage to be set and varied inside a computer-controlled test sequence, the Compliance West MegaPulse 1.2x50-16PF PV is truly a breakthrough product.

Features

- Up to 16kV test voltage at up to 180nF panel capacitance in tolerance.
- 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.
- The leading PV Panel Tester worldwide.
- One year calibration cycle.
- One year warranty.

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Specifications

Output Peak:	800V – 16kV Tolerance ±3%
Voltage Rise Time:	1.2uS, tolerance -10%, +50% [Trise=1.67(T90%-T30%)]
Voltage Duration Time:	50uS, tolerance ±20%
Voltage Control:	Knob or optional USB computer control
PV capacitance range:	10nF – 180nF
Voltage Display:	5 digit LED display
Voltage Meter Accuracy:	1% of reading ±10V
Duty Cycle:	60 Seconds
Line Voltage:	120V AC, 50/60Hz *optional different line voltage

Environmental

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

General

Dimensions: 24” wide x 30” high x 23” in deep

Weight: 140 lbs approx.

Product Package:

- Megapulse 1.2x50-16P PV tester
- Megapulse 1.2x50-16P PV product manual
- Two High Voltage Test Lead (Black), 3 feet
- Two High Voltage Test Lead (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 32bit platform.
220, 230 or 240:	If a different line voltage is desired, with this option we install a step down transformer to be compatible with your line voltage. 220 is for 220V, 230 for 230V and 240 for 240V.

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COMPLIANCE WEST USA
The blue box that tests. And tests.