



MegaPulse

1.2x50-7PF 500 0.5J

PN:00-MP1.2x50-7PF 500 0.5J

❖ 1.2us Rise x 50us Duration Waveform, 1-7kV at bulk cap.



*Image for reference only.

Surge Tester with a 1.2us Rise Time x 50us Duration Time Waveform. Power supply will deliver a pulse derived from a capacitor charged to 7kV with energy of 0.5J.

Digital Voltage knob with a 3 second charge time.

The front panel meter displays the voltage in the bulk capacitor (not the output voltage) and has an internal impedance of 500Ω.

Design to deliver 0.5J at 7000V setting.

➤ Features

- Digital output voltage knob on the front panel.
- Integrated High Voltage on hold circuit.
- External interlock disables HV output and defeats test when circuit is open.
- Microcontroller technologies.
- Front panel indicates internal HV and polarity.
- Polarity button selector on the front panel.
- Up to 7kV test voltage on bulk cap.
- Optional USB TestMinder, computer control with auto-trigger.
- Leads, manual and calibration certificate included.
- One year calibration cycle
- One year warranty.

➤ Specifications



TESTING CIRCUITRY

Output Peak Voltage at 5000V:	7000V ±5%.
Open Circuit Rise Time:	1.14us, ±30% (Trise=1.67*(T90%-T30%) per IEC 1180.
Open Circuit Duration Time:	56.69us, ±20% (Time to half-value) per IEC 1180.
Virtual Impedance:	500Ω.
Energy:	0.5J at 7000V.
Current Waveform:	Not defined.
Voltage Control:	Manually, by turning a knob in the front panel or via USB.
Polarity Control:	Positive and Negative. Alternating control available with USB.
Voltage Display:	4 Digit LED Display.
Voltage Meter resolution:	5V.
Voltage Meter Accuracy:	±1%.
Duty Cycle:	12pulses per min. with 5s between pulses, then 45s rest.
Charge Time:	<5s (2s min.)

ELECTRICAL

Line Voltage:	120V AC, 50/60Hz. Optional 100, 110, 220, 230 and 240V.
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SAFETY

Safety Interlock	2-pin terminal block on rear panel; shorted for operation.
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OUTPUTS - FRONT

OUTPUT:	High Voltage insulated socket.
RETURN:	High Voltage insulated socket.

OUTPUTS - REAR

TESTMINDER:	DB9 Female (Optional).
SAFETY INTERLOCK:	2-pin Terminal Block.
Inlet Module:	Inlet module with fuse and power switch combination.

➤ Environmental

Operating Temperature:	15-28 °C.
Relative Humidity Range:	0-90% non-condensing.

➤ General

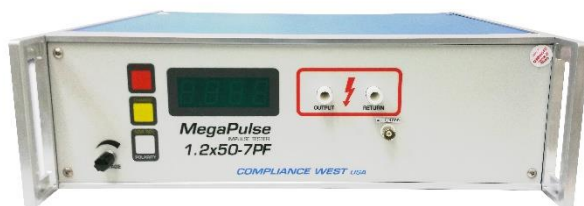
Dimensions:	17" wide x 3U high x 17" deep.
Weight:	22 lbs. approx.
Product Package:	<ul style="list-style-type: none"> • Megapulse 1.2x50-7PF 500 0.5J Tester. • Megapulse 1.2x50-7PF 500 0.5J User Manual. • High Voltage Test Leads Qty 1 (Red end), Qty 1 (Black end) • NIST traceable calibration certificate to ANSI Z540 • Calibration waveforms

➤ Options



00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
00-TMM-PF	TestMinder Computer Control
00-RI	Relay Interface Control.
00-CASE-6U:	Pelican Case with foam.
A2LA-TECH-MP	ISO17025 Calibration

➤ **Images** (for reference only)



FRONT



LEFT



RIGHT

