



MegaPulse

1.2x50-5PF 500 0.5J

PN:00-MP1.2x50-5PF 500 0.5J

❖ 1.2us Rise x 50us Duration Waveform, 1-5kV at bulk cap.



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 5kV with energy of 0.5J.

Digital Voltage knob with a 3 second charge time.

The front panel meter displays the voltage output.

Design to deliver 0.5J at 5,000V setting only with a 500Ω impedance.

*Image for reference only.

➤ 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 5kV 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:	5000V ±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 with 500Ω load only.
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

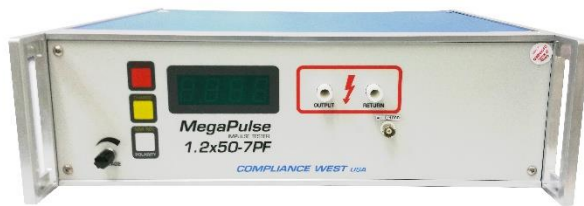
Dimensions:	17" wide x 3U high x 17" deep.
Weight:	22 lbs. approx.
Product Package:	<ul style="list-style-type: none"> • Megapulse 1.2x50-7PF 39 Tester. • Megapulse 1.2x50-7PF 39 User Manual. • High Voltage Test Leads Qty 1 (Red end), Qty 1 (Black end) • NIST traceable calibration certificate to ANSI 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-GVAC	Vacuum Relay Trigger Switch for a cleaner output waveform.
00-CASE-6U:	Pelican Case with foam.
A2LA-TECH-MP	ISO17025 Calibration

➤ Images (for reference only)



FRONT



LEFT



RIGHT

