



# MegaPulse

## 1.2x50-12PF 500 0.5J

PN:00-MP1.2x50-12PF 500 0.5J

### ❖ 1.2x50 Waveform with 500Ω output impedance and 0.5J.



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 12kV 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 12,000V setting only.

\*Actual products may vary depending on options and configuration.

### ➤ 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 12kV peak output.
- 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 12kV:	12kV ±10%.
Open Circuit Rise Time:	1.2us, ±30% (Trise=1.67*(T90%-T30%) per IEC 1180.
Open Circuit Duration Time:	50us, ±20% (Time to half-value) per IEC 1180.
Virtual Impedance:	500Ω.
Current Waveform:	Not defined.
Energy:	0.5J ±0.05J @ 12kV only.

### CONTROL

Voltage Control:	Manually, Digital knob on the front panel or via optional USB TestMinder.
Polarity Control:	Pos. and Neg. Alternating control on front panel or via optional USB TestMinder.
Charge:	Control on front panel or via optional USB TestMinder.
Trigger:	Control on front panel or via optional USB TestMinder.
Remote Control:	Optional wired remote control, 20ft long, controls, Trigger, Charge, and Polarity.

### DISPLAY

Voltage Display:	5 Digit LED Display.
Voltage Meter resolution:	5V.
Voltage Meter Accuracy:	±1%.
Display Reads:	Output Voltage. (Not bulk cap).

### OPERATION

Duty Cycle:	30s between pulses.
Charge Time:	<3s.
Time between pulses:	Adjustable via USB TestMinder software.

### 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 6U high x 17" deep.
Weight:	40 lbs. approx.
Product Package:	<ul style="list-style-type: none"><li>• Megapulse 1.2x50-12PF 500 0.5J Tester.</li><li>• Megapulse 1.2x50-12PF 500 0.5J User Manual.</li><li>• High Voltage Test Leads Qty 1 (Red end), Qty 1 (Black end)</li><li>• NIST traceable calibration certificate to ANSI Z540</li><li>• Calibration waveforms</li></ul>

## ➤ Options

00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
00-TMM-PF	TestMinder Computer Control.
00-RI	Relay Interface Control.
5J-A	0.5J Output at 1000V, 3000V, 5000V, 8000V and 12000V
5J-B	0.5J Output at 1000V, 5000V, 8000V and 12000V
5J-C	0.5J Output at 1000V, 5000V and 12000V
00-CASE-9U:	Pelican Case with foam.
A2LA-TECH-MP	ISO17025 Calibration

Rev 2.0

