



MegaPulse

1.2x50/8x20-12P 2Ω

PN:00-MP1.2x50/8x20-12P 2 ohm

❖ IEC 61010 Surge Tester with 1.2x50/8x20 2Ω output: 500V – 12kV.



*Image for reference only, actual product may vary.

The Waveform is in tolerance with the requirements of IEC 61010 Paragraph 14.9 and tables 17-18 from 500V – 20kV with a 2Ω and available 12Ω output impedance.

30seconds duty cycle time conforms with IEC 61010 cycle times.

Positive and Negative Pulses controlled with Polarity button on front panel.

➤ Features

- External interlock disables HV output and defeats test when circuit is open.
- Front panel indicates internal HV and polarity.
- Polarity button selector on the front panel.
- Microcontroller technologies.
- Available Wired Remote Control.
- Optional Relay Interface for Control via PLC.
- Available USB TestMinder, computer control with Auto-trigger.
- Leads, manual and calibration certificate included.
- Available ISO17025 Calibration per request.
- One year calibration cycle
- One year warranty.



➤ Specifications

TESTING CIRCUITRY

Max Output Voltage:	12kV, open circuit.
Max Current Output:	2Ω Output up to 6kA, in accordance with IEC 61010 table 17.
Output Impedance:	2Ω. Optional 12Ω.
Voltage Waveform:	1.2x50uS @ 500-12kV open circuit per EN60060-1 Fig. 2 and 3.
Voltage Peak Value:	500-12kV ±10% (independent of meter tolerance).
Voltage Front Time:	1.2uS ±30% [Trise=1.67*(T90%-T30%)].
Voltage Duration:	50uS ±20% (Time to half value).
Current Waveform:	8x20uS @ 250A-6kA (2Ω output only).
Current Peak Value:	250-6kA ±10% (independent of meter tolerance).
Current Front Time:	8uS ±20% (2Ω output only).
Current Duration Time:	20uS ±20% (2Ω output only).
Voltage Control:	Manually, by turning a knob in the front panel or via USB.
Polarity Control:	Positive/Negative front panel button or via Relay Interface. Optional USB control.
Voltage Display:	5 Digit LED Display.
Voltage Meter resolution:	10V.
Voltage Meter Accuracy:	±1%.
Duty Cycle:	30s between pulses.

ELECTRICAL

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

Safety Interlock:	2-pin terminal block on rear panel; shorted for operation.
Outputs Cover w/interlock:	Plexiglass door cover with interlock for safety.
Remote Control (wired)	Optional Remote Control for testing at a distance PN: 00-MP-RC-01.

OUTPUTS - FRONT

2Ω OUTPUT:	High Voltage/Current Connectors.
RETURN:	High Voltage/Current Connectors.
Relay Interface:	Terminal Block (optional).
TESTMININDER:	DB9 Female (optional).

➤ Environmental

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



➤ General

Dimensions:	TBD.
Weight:	TBD.
Product Package:	<ul style="list-style-type: none"> • MegaPulse 1.2x50/8x20-12P 2Ω Tester. • MegaPulse 1.2x50/8x20-12P 2Ω User Manual. • Test Leads. • NIST traceable calibration certificate to ANSI Z540 • Calibration waveforms

➤ Options

00-MP1.2x50/8x20-12P 12Tap:	12Ω Output Impedance.
00-TMM:	MegaPulse TestMinder for USB PC control.
00-RI:	Relay Interface Control.
00-MP-RC-02:	Remote Control (wired).
00-MP-RC-01-CA-20	MegaPulse Remote Control Cable 20ft
00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
A2LA-TECH-MP	ISO17025 Calibration

➤ Images



Rev 2.1

