

# Surge Testers

## MegaPulse Biphasic EN45502-2-2



### EN45502-2-2 Sec. 20 - External Defib Protection Test 2

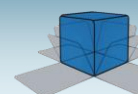
A Compliance West surge Tester. That means it outputs a guaranteed waveform but won't break the bank. The tester outputs the waveform it is supposed to, time after time.

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

The Biphasic EN 45502-2-2 outputs the pulse described in EN45502-2-2 Fig. 112. Front panel switch chooses the mono- or biphasic output from Standard Table 103 when discharged into the resistor network shown in Fig. 110. For tester protection, Fig. 110's R7 and R1 are supplied internally. In accordance with the standard, the Megapulse Biphasic EN45502-2-2 can recharge and trigger the next pulse within 20 seconds.

### Features

- Up to 270V test voltage.
- Microcontroller technologies, front panel voltage meter indicates test peak open circuit voltage and polarity.
- 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 interlock disables HV output and defeats test when circuit is open.
- Optional USB Testminder, computer control.
- Optional Resistor network of Fig. 110.
- One year calibration cycle.
- One year warranty.



# MegaPulse Biphasic EN45502-2-2



## Specifications

Output Voltage ( $V_{test}$ ): 0 – 270 V +5%, -0%

Main Capacitor: (150 ±50)  $\mu$ F,

Waveform	Pulse duration: $T_d$	Risetime: $t_r$	Falltime: $t_f$	Commutation time: $t_c$
Monophasic	9.5 ms < $T_d$ < 10.5ms	1 $\mu$ s < $t_r$ < 5 $\mu$ s	1 $\mu$ s < $t_f$ < 5 $\mu$ s	Not applicable
Biphasic	9.5 ms < $T_d$ < 10.5ms	1 $\mu$ s < $t_r$ < 5 $\mu$ s	1 $\mu$ s < $t_f$ < 5 $\mu$ s	$t_c \leq 2$ ms

Rout:

Voltage Control:

Polarity Control:

Voltage Display:

Voltage Meter Accuracy:

Duty Cycle:

Line Voltage:

$R1 = 50 \Omega \pm 5\%$ ,  $R7 = 5 \Omega \pm 5\%$

Manually, by turning a knob in front panel

Positive and negative. Alternating control available with optional computer control

4 digit LED display

±3V

1 pulse every 20 seconds

120V AC, 50/60Hz \*optional different line voltage



## Environmental

Operating Temperature: 15-40 °C

Relative Humidity Range: 0-90% non-condensing



## General

Dimensions:

Weight:

Product Package:

10" wide x 5" high x 12" in deep

12 lbs approx.

- Megapulse Biphasic EN45502-2-2 tester
- Megapulse Biphasic EN45502-2-2 product manual
- High Voltage Test Lead (Black), 4 feet
- Two High Voltage Test Leads (Red), 4 feet
- NIST traceable calibration certificate to ANSI Z540
- Calibration waveforms



## Options

XI:

TMM:

220, 230 or 240:

Resistor Network:

External interlock; two position terminal block on the rear panel must be shorted for voltage operation.

Testminder USB computer interface software. The tester can be controlled with a computer. It can also be set to automatically follow test sequences and keep a record with test information. Compatible with Windows 32bit platform.

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.

Built in resistor network of Figure 110. Without the resistor network option the user must attach the remaining resistors outside the tester.

