



SURGE TESTERS / EN 61000-4-5 testers

# MegaPulse 1.2x50/8x20P-6 2ohm

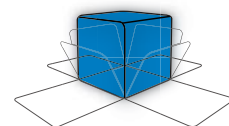


➤ EN61000-4-5 compliant 6000V combination waveform tester

## ➤ FEATURES

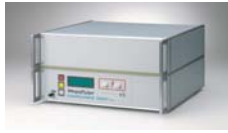
Surge Tester built to the requirements of EN 61000-4-5, for use in various Standards which reference EN61000-4-5 for surge test definitions.

- Built to the requirements of EN 61000-4-5, Section 6, Para. 6.1.1.
- In compliance with tolerances noted in EN 61000-4-5 Table 2.
- Positive and negative waveform delivery. Choose via a front panel button.
- 6000V/3000A combination waveform output maximum. In tolerance down to 500V/250A.
- 360° pulse insertion - pulse is applied at the point selected on the AC power waveform.
- Designed for use with a CDN.
- Heavy duty construction prevents overheating in repeated powerline test applications.
- Available options allow computer pulse control.
- Voltage waveform 1.2 uSec rise, 50 uSec duration, up to 6kV.
- Current waveform 8 uSec rise, 20 uSec duration, up to 3kA.
- Tester internal impedance is 2 ohms.



The blue box that tests. And tests.

# MegaPulse 1.2x50/8x20P-6 2ohm



## GENERAL ▾

MegaPulse 1.2x50/8x20P-6 2 ohm

6kV output to perform in accordance with the requirements of EN61000-4-5, Para. 6.1.1. The virtual impedance is 2 ohm, in accordance with the requirements of EN 61000-4-5 Table 2. The tester will charge within one minute in accordance with the maximum repetition rate specified in EN 61000-4-5. When used for power line testing with a CDN, our phase control circuit allows injection of the pulse in a range between 0° and 360° relative to the phase angle of the AC voltage powering the equipment under test, with an insertion tolerance of ±10%.

For automated multi-pulse testing, use our MegaPulse TestMinder option, which allows automated multiple pulse testing, controlled by a PC. The MegaPulse 1.2x50/8x20P-6 2 ohm ships with cables, graphs of theoretical and actual waveforms, and a Calibration Certificate. One year warranty. One year calibration cycle.

Note: The surge relays must be replaced periodically. The relays have a life of 1000 cycles of short circuit duty. In most cases, the added impedance of the DUT will substantially decrease the relay current and increase the relay life. Relays must be replaced when the tester output into a short circuit is not within the tolerances specified in EN 61000-4-5 Table 2.



## ENVIRONMENTAL ▾

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



## SPECIFICATIONS ▾

Model:	MegaPulse 1.2x50/8x20P-6 2 ohm
Tolerance:	Judged by EN 61000-4-5, Table 2
Voltage Open Circuit:	500-6000V
No load voltage waveshape:	1.2 uSec rise, 50 uSec duration
Short circuit voltage waveshape:	8 uSec rise, 20 uSec duration
Internal virtual resistor:	2 ohm ±10%
Polarity:	Positive / Negative, chosen by front panel button
Outputs:	Floating outputs.
Signal:	Signal can be injected from 0°-360° relative to AC phase angle ±10% (CDN required for pulse insertion on power line)
Trigger:	Manually or PC automation (optional)
Input Power:	120V/60Hz or 220V/50Hz or 240V/50 Hz
Weight:	60 lbs.
Dimensions:	6Ux17in high by 17in wide



## OPTIONS ▾

Option TMM	TestMinder MegaPulse, Computer Pulse control
Option BNCV	Voltage BNC 100:1, Reference only because of distortions in the time domain
Option RI	PLC Interface Relay Board
Option 950:	1.2x50 42 ohm output (GR-1089, EN 60950, etc)



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