



**SURGE TESTERS / GR-1089 testers**

# 1st Level Lightning Surge



➤ MegaPulse 10x360s.12 Pair GR-1089 tester (12 pair/25A simultaneous test)

## ➤ FEATURES

A Compliance West Surge Tester. That means it outputs a guaranteed waveform but won't break the bank. We don't believe in frills that never get used but we do believe in providing a user-friendly, reliable tester that outputs the waveform it is supposed to, time after time.

This tester is specifically designed for testing to the GR-1089 Issue 4 1st Level Lightning Surge Test as shown in Table 4-2 Surge 5. This is a 24-channel tester for use with up to 12 pairs (24 conductors) simultaneously, with 25A available per conductor. Tests can be conducted on any number of conductors by leaving the unused terminals on the MegaPulse 10x360s.12 Pair open. We also offer a six-pair version for testing up to 12 conductors simultaneously. Table 4-2 Surge 2 tests can also be conducted on two-wire or four-wire interfaces by connecting four of the MegaPulse terminals in parallel. The maintenance cycle of this tester is 300k cycles. The duty cycle is one output pulse per minute, continuous. The waveform output is in accordance with GR-1089, Issue 4, App. A.

Built in the USA. Serviced in the USA by the guys who designed and built it. Email and phone support free for life. Reasonable repair and calibration charges. If you can't get it fixed, why buy it?



The blue box that tests. And tests.

Compliance West USA

[www.compwest.com](http://www.compwest.com)

Call [800] 748-6224

# MegaPulse 10x360s.12 Pair



## ELECTRICAL ▾

Output:	Up to 1000 Volts open circuit; controlled by front panel knob and displayed on voltage meter. Positive or negative polarity is chosen via front-panel button. Up to 25 Amps for 24 conductors simultaneously. 600 Amps developed into short circuit if all 24 conductors are shorted to ground; 25A per conductor. One or two 100A outputs can be used for Table 4-2 Surge 2 by bridging one or two sets of four output terminals of the 10x360s.12 Pair. Virtual Impedance: n/a
Voltage Waveform:	10x360us @ 1000V Open Circuit: Per GR-1089 Iss. 4 App. A Rise 10uSec +0, -2.5uSec
Current Waveform:	Duration 360uSec +108uSec, -0uSec 10x360uSec @ up to 600A Short Circuit: Per GR-1089 Iss. 4 App. A Rise 10uSec +0, -2.5uSec
Amplitude:	Duration 360uSec +108uSec, -0uSec 2x10uSec @ 2500V -0%, +15% 2x10uSec @ 500A -0%, +15%
Charge Time:	One minute or less. 25-30 seconds typ.



## ENVIRONMENTAL ▾

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



## GENERAL ▾

Input Power Requirements:	114-128V, 50/60Hz, 5A
Weight:	80 lbs. approx.
Dimensions:	26 in. (W) x 30 in. (H) x 21 in. (L) (subject to change)



## OPTIONS AND OPERATION ▾

Manual operation:	Operator connects the provided output and return cables to the MegaPulse and the DUT. Operator selects waveform polarity, pushes the CHARGE button on the front panel and waits until the front panel meter reads 1000V. Operator conducts the test by pushing the TRIGGER button on the front panel.
Options:	RI: Relay isolated relays for connection to customer PLC TMM: TestMinder allows test to be timed using computer clock and run from a PC. 240: 240V mains operation.



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