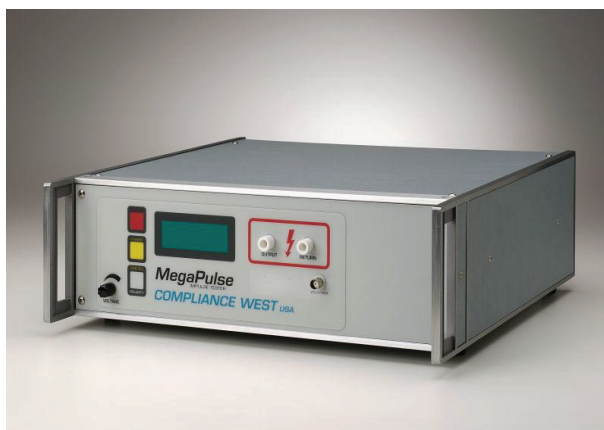




SURGE TESTERS / EN60950 Annex N 7kV 10x700 Tester

# MegaPulse 10x700-7P



➤ EN60950 Surge Tester with 10x700 output: 1kV - 7kV at bulk cap

## ➤ FEATURES

The MegaPulse 10x700-7P waveform is designed to provide a stable and repeatable pulse as needed to conduct the Test described in EN60950, Annex N, Table N.1, Line 1 for Data Processing Equipment. This tester can test for the Australian Deviation, which requires a 7kV peak surge. The resistor bank has been completely redesigned to provide repeatable pulses with little change in output impedance during multiple pulse deliveries.

The waveform is in tolerance with the requirements of IEC 1180 from 1000-7000V at the bulk cap and has an output impedance of 40 ohms. The front panel meter reads the bulk capacitor voltage (not the output voltage) in accordance with the requirements of Annex N.

Optionally built with a relay conforming to the requirements of IEC 60065, Figure 7b (6U enclosure).

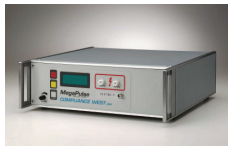
Optionally equipped with a 1000:1 reference BNC for reading peak voltage only.

Optionally equipped with TestMinder, allowing computer control.



The blue box that tests. And tests.

# MegaPulse 10x700-7P



## ELECTRICAL ▾

Output:	Up to 7000 Volts at bulk cap; controlled by front panel knob. Bulk capacitor voltage is displayed on the front panel meter. Positive or negative polarity is chosen via front-panel button.
Voltage Waveform:	Virtual Impedance: 40 ohms. 10x700us @ 1000-7kV at bulk cap: Per EN60950 Annex N (incl Australian Deviation). Peak Value: 1000-7kV $\pm 3\%$ (independent of meter tolerance). Front time: 10uSec $\pm 30\%$ [Trise= 1.67 (T90%-T30%)] per IEC 1180. Duration: 700uSec $\pm 20\%$ (Time to half-value) per IEC 1180.
Current Waveform:	(not defined)
Pulse Delivery:	40 ohm tester outputs up to 175A peak. For 2.5kV pulses: Once every 30 seconds. For 7kV pulses: Once every minute.
Meter Accuracy:	$\pm 3\%$ 1000-7kV.
Test Adjustments:	Amplitude via front panel knob and shown on front panel digital meter. Polarity adjustment via front panel button.



## ENVIRONMENTAL ▾

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



## GENERAL ▾

Input Power Requirements:	114-128V, 50/60Hz, 2A.
Weight:	30 lbs. approx. Shipping weight 40 lbs.
Dimensions:	17 in. (W) x 3U in (H) x 17 in (D). 6U x 17" x 17" (Option IER: IEC switch).



## 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 indicates test voltage. 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 USB. 240: 240V mains operation. 230: 230V mains operation. 220: 220V mains operation. BNCV: Voltage BNC 1000:1 (Vpeak only). IER: IEC 65 Figure 7b switch.



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