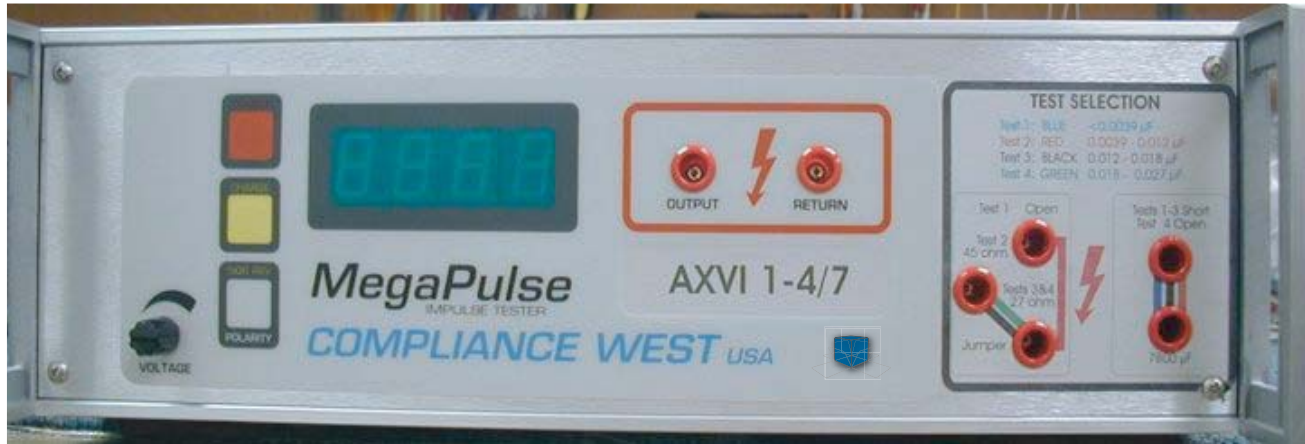


MegaPulse

FAST SAFE RELIABLE



➤ MegaPulse Capacitor Series A and Series B to 8000V/4000V

➤ FEATURES

The MegaPulse Capacitor Series testers are designed to perform the tests required by IEC 384-14:2005 Annex A, Table XVI. No base station is required; the use of the MegaPulse Series A and Series B testers will perform all the tests required in the Table up to 8000V surge voltage. Options include an interlocked test fixture to protect the operator; computer control of multiple surges, and a variable voltage autotriggering circuit which will trigger the waveform when the desired voltage is reached.

The MegaPulse Capacitor Series A tests per Table XVI, Lines 1-4 at up to 8000V. The MegaPulse Capacitor Series B tests per Table XVI, Lines 5-10 at up to 4000V. Both testers are within the tolerance specification noted at the bottom of the Table. (Please note that a normal 1.2x50uSec surge tester will not satisfy this tolerance specification.)

The MegaPulse Capacitor Series A and B require jumper changes for each test. Please see the jumper selection on the right side of the tester in the photo above.



The blue box that tests. And tests.

MegaPulse Capacitor Series



ELECTRICAL

Performs the tests in accordance with TABLE XVI as shown. Waveform guaranteed to be min. 1.7x46uSec with 0.01uF cap and min. 1.6x47uSec with 0.1uF cap connected, in accordance with IEC 384-14:2005 tolerances.

TABLE XVI

Nominal value of C_X (μF)			C_T (μF)	R_P (Ω)	R_S (Ω)	C_P (μF)
0,0039	$C_X <$	$< 0,0039$	0,25	234	62	7 800
	$C_X <$	$< 0,012$	0,25	234	45	7 800
0,012	$C_X <$	$< 0,018$	0,25	234	27	7 800
0,018	$C_X <$	$< 0,027$	0,25	234	27	-
0,027	$C_X <$	$< 0,039$	20	3	25	3 300
0,039	$C_X <$	$< 0,056$	20	3	13	3 300
0,056	$C_X <$	$< 0,082$	20	3	9	3 300
0,082	$C_X <$	$< 0,12$	20	3	7	3 300
0,12	$C_X <$	$< 0,18$	20	3	5	3 300
	$C_X >$	$> 0,18$	20	3	3	3 300



ENVIRONMENTAL

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



GENERAL

Input Power Requirements: 120V 1A (option 220, 230 or 240V 50 Hz)
Weight: ~25 lbs (Series A) ~40 lbs (Series B).
Dimensions: 17 (W) x 3U (H) x 17 (L) in. (Series A)
17 (W) x 6U (H) x 17 (L) in. (Series B)



OPTIONS

Option 240: Specify 220, 230 or 240V 50Hz mains
Option IER: Main switching relay is constructed to the requirements of IEC 65, Figure 7b.
Option TMM: Allows operation of CHARGE and TRIGGER outputs via computer. Can conduct multiple pulse tests and control timing thereof.
Option RI: Isolated relay coils led to terminal blocks for PLC control of CHARGE and TRIGGER functions.
Option BNCV: 1000:1 BNC voltage output (reference only; time domain not accurate)
Option IFD: Insulation fault detection circuit; can detect arc generated by insulation failure in the DUT. Requires known good sample for proper setup.
Option MCA: Variable voltage autotrigger. Voltage desired is set on front panel meter using a potentiometer and MegaPulse is automatically triggered when the voltage reaches that point. Can be teamed with Option TMM for automated testing.



The blue box that tests. And tests.