



SURGE TESTERS / EN 60335 testers

# MegaPulse 1.2x50-7200 12Ω

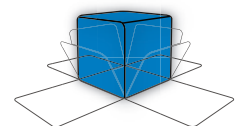


➤ EN60335 7200V voltage waveform tester with 12 ohm output

## ➤ FEATURES

Surge Tester built to the requirements of EN60335, for use in judging Insulation Systems as described in Table 6 of EN60335. The tester provides impulses from 400 to 7200V peak.

- Complies with the requirements of IEC 61180-2.
- Positive and negative waveform delivery. Choose via a front panel button.
- 7200V/600A peak waveform output. In tolerance down to 400V/33A. Current waveform is undefined, in accordance with EN60335.
- Available options allow computer pulse control and reduce or eliminate prearcing at low voltages. All options are noted on page 2.
- Voltage waveform 1.2 uSec rise, 50 uSec duration, up to 7.2kV.
- Tester internal impedance is 12 ohms.
- 39 ohm tap for higher impedance tests optionally available.



The blue box that tests. And tests.

# MegaPulse 1.2x50-7200 12ohm



## GENERAL ▾

MegaPulse 1.2x50-7200 12 ohm

7200V output to perform in accordance with the requirements of EN60335, paragraph 14; Table 6 up to a rated Impulse Voltage of 6000V. The virtual impedance is 12 ohms, and with Option HVA, the tester can be additionally equipped with a 39 ohm tap. The tester will deliver a pulse within 3 seconds. For automated multi-pulse testing, use our MegaPulse TestMinder option, which allows automated testing with voltage selection, polarity control, and autotrigger, controlled by a PC via a USB connection. The MegaPulse 1.2x50-7200 12 ohm ships with cables, graphs of theoretical and actual waveforms, and a Calibration Certificate to the requirements of ANSI Z540 (traceability). One year warranty. One year calibration cycle.



## ENVIRONMENTAL ▾

Operating Temperature::

15-40°C

Relative Humidity Range:

0-90% non-condensing



## SPECIFICATIONS ▾

Model:

MegaPulse 1.2x50-7200 12 ohm

Tolerance:

Complies with IEC61180-2 and IEC 60335-1 chap. 14, Table 6. Note: 3 sec charge time.

Voltage Open Circuit:

400-7200V

No load voltage waveshape:

1.2 uSec rise, 50 uSec duration

Short circuit voltage waveshape:

-undefined-

Internal virtual resistor:

12 ohm ±10%

Polarity:

Positive / Negative, chosen by front panel button or PC automation (optional)

Outputs:

Grounded outputs.

Waveform prearcing:

At voltages below 1000V, prearcing is evident on the waveform. Although this prearcing is allowed by the Standard; can be markedly reduced with vacuum relays (Option HVR) or eliminated with solid state switching (Option I72). Option I72 uses solid state switches at 1000V output or less and requires Option TMM for the automated switching between the solid state relays and the mechanical relays above 1000V. Voltages higher than 1000V do not exhibit prearcing.

Trigger:

Manually or PC automation (optional)



## OPTIONS ▾

Option TMM  
Option BNCV

TestMinder MegaPulse, USB Computer Pulse control  
Voltage BNC 100:1, Reference only because of distortions  
in the time domain

Option RI  
Option 950:  
Option HVA:  
Option RI:  
Option HVR:  
Option I72:

PLC Interface Relay Board  
1.2x50 42 ohm output; meter reads bulk cap voltage (GR-1089, EN 60950, etc)  
Auxiliary HV output; 39 ohms, in accordance with EN 60335  
PLC Interface Relay. Outputs to customer's specifications, see Questionnaire.  
Vacuum relay used for pulse switching. Reduces low voltage prearcing.  
IGBT used for low voltage pulse switching. Autoswitch to  
mechanical relay control at V>1000V. Requires option TMM.  
Eliminates low voltage prearcing.

Weight 50 lbs; dimensions 6Ux17.



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