



MegaPulse Defib-5P FAST SAFE RELIABLE



IEC 60601-1 Issue 3 Defib-Proof Tester

FEATURES

Surge Tester built to the requirements of IEC 60601-1:2005 (Issue 3) Figure 10 (IEC 60601-1 Figure 50 in older versions). Conducts IEC 60601-1:2006 Figure 11; IEC 60601-2-34; IEC 60601-2-49; IEC 60601-2-27; EC-13; and EC-53. All these tests use the same 5000V source with differences in output waveshaping. The various waveshaping output circuits required for each test are included in the Defib-5P. (5Vp-p 10Hz signal generator is optional.)

Energy Measurement is now required by IEC 60601-1:2005. The Defib-5P is completely redesigned to allow accurate energy measurement during the test. With an oscilloscope connected to the energy measurement output jack on the Defib-5P rear panel, accurate energy measurements are assured by our redesigned resistor bank which not only measures 100 ohms statically when checked before each test, but remains within 5% of the nominal value while the test is being conducted, which is essential for accurate energy measurement.

Our capacitor bank and inductor designs are correctly sized to maintain correct output in accordance with circuit simulations.

The Defib-5P allows optional USB connection to a host computer.



The blue box that tests. And tests.

MegaPulse Defib-5P



FEATURES ▾

Output:	5000 V voltage source with output shaping network and evaluation network to perform in accordance with IEC 60601-1:2005 Figure 10. Waveshaping circuits for IEC 60601-1:2006 Figure 11; IEC 60601-2-27,-2-49; EC-13 and EC-53 are included. -2-34 available by ordering Option 34. Resistor bank, inductor and capacitors allow output to be in accordance with circuit simulations. Vacuum pulse delivery relay available by ordering Option GVAC.
Energy Measurement Port:	Energy Measurement of the output pulse is required by IEC 60601-1 Figure 10. The Defib-5 resistor bank is stable within 5% of nominal value while the pulse is being delivered, and while the energy measurement information is being gathered for stable, repeatable results. Duty cycle 30 seconds between pulses continuous. Option DGSB allows automated Energy measurement as well as Waveform capture and retrieval using customer's LabView data capture system. Option 100X allows use of Fluke 700DT/7010 for direct reading energy output results.
Resistor Bank:	Provided with heavy duty resistor bank to allow 30 second duty cycles between pulses. Option FCD allows 12 second continuous duty resistor bank is available and is also equipped with our comparator-fired 5000V autotrigger circuit for very repeatable output voltage delivery.
Capacitor Bank:	Standard: 20,000 cycle maintenance interval. Options DC and FCD: 2.5M cycle maintenance interval.
Defib-5 Reference:	An optional source connected in place of the DUT to validate the test setup, and ensure the correct function of the Defib-5's voltage shaping circuit and evaluation network.

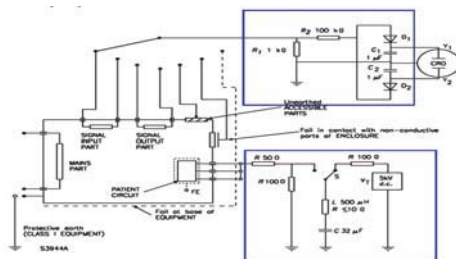


AVAILABLE OPTIONS ▾

RI:	PLC Interface Relay Board.
FCD:	12 sec charge; autotrigger; heavy duty capacitor bank.
GVAC:	Vacuum pulse delivery relay.
TMMD:	USB MegaPulse TestMinder Computer Control with Test Sequence Autorun capability.
100X:	Allows use of customer's Fluke 700DT/7010 for energy readout.
VH:	Continuous Full Voltage - Customer to specify voltage level
DC:	Dry Capacitor 2M cycles; with fan.
34:	Invasive Blood Pressure Test (IEC 60601-2-34)
SG	10 Hz 5V signal generator built-in

CIRCUIT (IEC 60601-1 Fig. 10) ▾

(The Defib-5 includes all circuitry shown in the blue boxes, as well as circuitry for all other noted tests. Fig. 10 shown as an example.)



The blue box that tests. And tests.