



Welcome to



Quality Surge Testers - Worldwide

www.pjelectronics.com

**PJ Electronics** manufactures **65** models of Surge Testers including a



**60 KV High Frequency Surge Tester!**



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"Our voltage rise time is faster than lightning!"

Since 1969, we have been designing and manufacturing a unique line of **High Frequency, High Voltage** Surge Testers that have outputs up to 50,000 volts! Our Surge Testers are the *most sensitive* testers manufactured to date in detecting defective turn-to-turn insulation of coils in all motors, generators, transformers and all types of windings.

Identified as the world leader in High Voltage Surge Testers, the name and reputation of PJ Electronics are conveyed by word of mouth throughout the motor industry. The PJ Surge Tester is used Worldwide in 57 countries.

 We are the **only** manufacturer that employs **High Frequency Technology**. High frequency technology is accomplished by use of a **bi-directional switch** which **no one** in the industry has! (**All competitor testers** used in the market today **use a uni-directional switch** as the primary discharge device. This method of discharge is classified as an *impulse* and the tester in which this switch is employed is called an Impulse Tester, **not a Surge Tester**).

 **PJ Electronics** is the **only** manufacturer with an entire line of surge testers that exhibit a voltage rise time **that meets the IEEE Standard 522-1992, IEC 34-15 i.e., 0.1 micro-seconds**.

 **All** of our Surge Testers resonate / pulse the load coils at **60 pulses per second**. Typical Impulse Testers pulse their load coils around *5 pulses per second at a much slower rise time*.

 **PJ Electronics** is the **only** manufacturer that can accurately generate voltage to any type of load and give 100% accuracy in the verification of our voltage. Factory voltage calibration on all PJ Surge testers is traceable to NIST (National Institute Standards and Technology). Our customers can actually verify the output voltage, as displayed on the panel meter, for themselves at any time. This is accomplished by using an optional calibrated High Voltage Probe in conjunction with our Tektronix Digital Oscilloscopes that we supply with every one of our testers.

 **ALL** PJ Surge Testers come equipped with a standard feature to test grounded or ungrounded **Fully Assembled Motors** without rotating the rotor.

 Whether your application for a Surge Tester relates to Manufacturing, Re-building, Quality Control, Preventive, Predictive Maintenance or Laboratory R&D, a PJ High Frequency Surge Tester **will** improve your product reliability by uncovering: weak/defective coils, connection errors, wrong turn count in a coil winding, phase unbalances, opens, grounds, shorts, ground faults, etc..

 A partial list of items that should be tested with our PJ Surge Tester are: Low Impedance Coils, Field Coils, High Impedance Coils, Chokes/Reactor Coils, AC / DC Generators, Transformer Coils, Solenoid Coils, DC Armatures, Electro-Magnetic Coil, Stators, Multi-Phase Stators, Random Wound Coils, Formed Coils, and All Types of Motors.

**PJ Electronics** offers more models from which to choose! There is NO reason to pay for features that you do not need.