



Quality Surge Testers - Worldwide

## PJ High Frequency Surge Testers SIGNATURE MODELS (6KV to 20KV)

www.pjelectronics.com /pjsignature2.html | Phone /Fax: 001 412-793-3912

MODEL * NUMBER	APPROX. WEIGHT	DIMENSIONS L" x W" x H"	POWER INPUT	PEAK VOLTAGE OUTPUT	PEAK CURRENT OUTPUT
<b>S6</b>	61 lbs	18.5" x 19" x 12.5"	360 VA	6,000 V	150 amps
<b>S10</b>	63 lbs	18.5" x 19" x 12.5"	720 VA	10,000 V	300 amps
<b>S12</b>	65 lbs	18.5" x 19" x 12.5"	840 VA	12,000 V	375 amps
<b>S15</b>	67 lbs	18.5" x 19" x 12.5"	1080 VA	15,000 V	500 amps
<i>New!</i> <b>S20</b>	73 lbs	18.5" x 19" x 14"	1440 VA	20,000 V	700 amps
<b>TS6</b>	65 lbs	18.5" x 19" x 14"	360 VA	6,000 V	150 amps
<b>TS10</b>	67 lbs	18.5" x 19" x 14"	720 VA	10,000 V	300 amps
<b>TS12</b>	69 lbs	18.5" x 19" x 14"	840 VA	12,000 V	375 amps
<b>TS15</b>	71 lbs	18.5" x 19" x 14"	1080 VA	15,000 V	500 amps
<b>TSM6</b>	63 lbs	18.5" x 19" x 10.7"	360 VA	6,000 V	150 amps
<b>TSM10</b>	64 lbs	18.5" x 19" x 10.7"	720 VA	10,000 V	300 amps
<b>TSM12</b>	65 lbs	18.5" x 19" x 10.7"	840 VA	12,000 V	375 amps
<b>TSM15</b>	66 lbs	18.5" x 19" x 10.7"	1080 VA	15,000 V	500 amps
<b>SP6</b>	65 lbs	18.5" x 19" x 14"	360 VA	6,000 V	150 amps
<b>SP10</b>	67 lbs	18.5" x 19" x 14"	720 VA	10,000 V	300 amps
<b>SP12</b>	69 lbs	18.5" x 19" x 14"	840 VA	12,000 V	375 amps
<b>SP15</b>	71 lbs	18.5" x 19" x 14"	1080 VA	15,000 V	500 amps
<i>New!</i> <b>SP20</b>	95 lbs	18.5" x 19" x 14"	1440 VA	20,000 V	700 amps

### DC HI-POT SPECIFICATIONS

MODEL NUMBER	MAXIMUM OUTPUT VOLTAGE	MAXIMUM OUTPUT CURRENT	HI-POT OVERCURRENT TRIP	CURRENT RESOLUTION
<b>SP6, SPM6</b>	6 KV	2000 $\mu$ amps	2000 $\mu$ amps	0.1 / 1 micro amps
<b>SP10, SPM10</b>	10 KV	2000 $\mu$ amps	2000 $\mu$ amps	0.1 / 1 micro amps
<b>SP12, SPM12</b>	12 KV	2000 $\mu$ amps	2000 $\mu$ amps	0.1 / 1 micro amps
<b>SP15, SPM15</b>	15 KV	2000 $\mu$ amps	2000 $\mu$ amps	0.1 / 1 micro amps
<i>New!</i> <b>SP20</b>	20 KV	2000 $\mu$ amps	2000 $\mu$ amps	0.1 / 1 micro amps

\*Please add the following designation, "-2M", after the model number for PJ Surge Testers designed to operate from 220-240 operating line voltage. For example, the Model TS15 would be identified as Model TS15-2M.

#### **NOTE: ALL Models:**

- supplied with complete set of Instruction / Service manuals.
- come with a Certificate of Calibration traceable to NIST.
- meet IEEE's Standard 522-1992 voltage rise time specification of 0.1 $\mu$  sec.
- supplied with a Tektronix\* or Rigol\* Digital storage, programmable Oscilloscope with Software and a USB Flash Drive. \*depending on model.
- have a pulse rate of 50/60 pulses per second (pulse rate predicated on the line frequency).
- have a ground detector indicator to assure operator safety (120 Volt only).
- include a foot switch safety interlock.
- equipped to operate at 120VAC, 50/60Hz., single phase (except for 50KV & 60 models).
- capable of testing extremely low inductances (armatures, fields, etc.).
- capable of testing Fully Assembled Motors without rotating the Rotor.
- have dual waveform presentation: resonant current waveforms for low impedance windings & resonant voltage waveforms for high impedance windings.
- equipped with a digital voltage output panel meter.
- warranted against defective materials and workmanship\* for one year, with lifetime technical support! \*at our factory

**Signature "S" Model:** 6KV to 20KV Bench size performance & durability with PJ's exclusive/unique High Frequency Technology capable of testing the integrity of any turn to turn insulation, including low inductance windings. These Digital Surge Testers come standard with a rack-mounted, Tektronix TDS1001B or Rigol DS1000E series, digital storage, programmable oscilloscope with USB Interface Ports, USB Flash Drive for unlimited storage capabilities, Software and multi-language user interface. (S Model shown on right.)



**New! PJ Electronics proudly offers a new 20KV Bench Model** (Model "S20"). PJ Electronics is the **only** manufacturer on the Market that offers a **20KV transportable Bench Model!**



**"TS" Model:** 6KV to 15KV Although all PJ Surge Testers are capable of testing 3 Phase Motors, this "TS" Model has the same characteristics as the Signature Model, but includes a built-in 3 phase test selector switch that facilitates 3 phase motor testing by mechanically re-positioning the ground terminal. This provides the operator with a quick identification of the defective phase when a fault is uncovered. The "TS" Model is perfect for the production line or high volume three phase motor testing. (TS Model shown on left.)

**"TSM" Model:** 6KV to 15KV Same performance and testing capabilities as the "TS" Model, but designed in a compact cabinet that contains a multi-position carry/tilt handle and a rear plastic snap-on cover for cable storage and transportation in the shop or in the field. (TSM Model on right)



**"SP" Model:** 6KV to 20KV The SP Model offers Surge / DC Hi-Pot testing capabilities! The SP Model has all of the features of a Signature Tester plus a DC Hi-Pot Tester. DC Hi-Pot testing with dual LED panel meters that display direct read out of current and voltage, with overcurrent safety trip. This dual tester combo is still capable of testing 3 phase motors with or without rotors. (SP Model is shown with Printer on left.)

**New! PJ Electronics proudly offers a new 20KV Surge / DC Hi-Pot Bench model** (Model "SP20"). PJ Electronics is the **only** manufacturer on the Market that offers a **20KV transportable Bench Model!** (SP20 Model is shown on right.)



**SPM" Model:** 6KV to 15KV A High Frequency Digital Surge Tester and DC Hi-Pot Tester (similar to the "SP" Model) together in a compact cabinet. Take this portable tester to your test site and accurately perform Surge, Hi-Pot, PI and Resistance\* Tests. \* optional (Model not shown)

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