



Quality Surge Testers - Worldwide

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

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MODEL * NUMBER	APPROX. WEIGHT	DIMENSIONS L" x W" x H"	POWER INPUT	PEAK VOLTAGE OUTPUT	PEAK CURRENT OUTPUT
S6	61 lbs	18.5" x 19" x 12.5"	360 VA	6,000 V	150 amps
S10	63 lbs	18.5" x 19" x 12.5"	720 VA	10,000 V	300 amps
S12	65 lbs	18.5" x 19" x 12.5"	840 VA	12,000 V	375 amps
S15	67 lbs	18.5" x 19" x 12.5"	1080 VA	15,000 V	500 amps
<i>New!</i> S20	73 lbs	18.5" x 19" x 14"	1440 VA	20,000 V	700 amps
TS6	65 lbs	18.5" x 19" x 14"	360 VA	6,000 V	150 amps
TS10	67 lbs	18.5" x 19" x 14"	720 VA	10,000 V	300 amps
TS12	69 lbs	18.5" x 19" x 14"	840 VA	12,000 V	375 amps
TS15	71 lbs	18.5" x 19" x 14"	1080 VA	15,000 V	500 amps
TSM6	63 lbs	18.5" x 19" x 10.7"	360 VA	6,000 V	150 amps
TSM10	64 lbs	18.5" x 19" x 10.7"	720 VA	10,000 V	300 amps
TSM12	65 lbs	18.5" x 19" x 10.7"	840 VA	12,000 V	375 amps
TSM15	66 lbs	18.5" x 19" x 10.7"	1080 VA	15,000 V	500 amps
SP6	65 lbs	18.5" x 19" x 14"	360 VA	6,000 V	150 amps
SP10	67 lbs	18.5" x 19" x 14"	720 VA	10,000 V	300 amps
SP12	69 lbs	18.5" x 19" x 14"	840 VA	12,000 V	375 amps
SP15	71 lbs	18.5" x 19" x 14"	1080 VA	15,000 V	500 amps
<i>New!</i> SP20	84 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
SP6, SPM6	6 KV	2000 μ amps	2000 μ amps	0.1 / 1 micro amps
SP10, SPM10	10 KV	2000 μ amps	2000 μ amps	0.1 / 1 micro amps
SP12, SPM12	12 KV	2000 μ amps	2000 μ amps	0.1 / 1 micro amps
SP15, SPM15	15 KV	2000 μ amps	2000 μ amps	0.1 / 1 micro amps
<i>New!</i> SP20	20 KV	2000 μ amps	2000 μ 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 522-1992/2004 voltage rise time specification of 0.1 μ sec.
- supplied with a Rigol Digital storage, programmable Oscilloscope with Software and a USB Flash Drive.
- 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, 2-3 turn form coils, etc.) - with use of a calibrated high voltage probe.
- 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 & versatility 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 **color** Rigol DSE series, digital storage, programmable oscilloscope with USB Interface Ports, USB Flash Drive for unlimited storage capabilities, Software and multi-language user interface.

Note: Our 6KV to 15KV Bench models (S, TS, SP, MB) can be equipped with a high voltage rotary switch to permit the tester to operate as either a low inductance Armature Tester or a standard Surge Tester. See our price list page under Accessories/Options for this Armature Feature. (S Model (6-15KV) with optional Armature Feature, shown on right.)



PJ Electronics proudly offers a 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 (Portable): 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 (6-15KV) is shown on left with optional Armature Feature.)

PJ Electronics proudly offers a 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!**

"SPM" Model (Portable): 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 (SPM model shown on right.)



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