PFT Series - AC High Voltage Dielectric Test Set

0 – 50 kV AC Power Frequency AC Hipot

PFT-503CM / PFT-503CMF

0 - 50 kV AC, up to 3kVA

The **PFT-503CM and PFT-503CMF** are from our popular PFT Series of field portable AC hipot test sets. These hipots provide continuously adjustable AC voltage used for a pass/fail, AC over-voltage withstand test on high voltage apparatus, like switchgear, circuit breakers, reclosers, vacuum bottles, hot sticks, bus duct, and any other apparatus needing an AC test voltage. The PFT Series offers the most field portable, affordable, and easiest to operate AC hipots at this voltage and power. A gapped core transformer for up to 3 kVA of output power with the draw of only 1.5 kVA so the hipot can be powered by a standard 120Vac or 230Vac input. Equipped with a two-range voltmeter, three-range current meter and guard circuit for precise leakage current measurements. For bench-top requirements see the **ABT Series.** Testing loads that require higher power, see our **ALT, FPA, HPA and PAR** lines of AC dielectric test sets.

- Convenient one-piece field portable design
- Secondary connected 2 Range Voltmeter: 0 - 25 / 50 kV AC
- 3 Range Current Meter: 0 – 1 mA AC with x1, x10, and x100 multipliers
- Fixed overload set to 120% of variable transformer rated output current
- Transit protected meters prevent meter damage between test sites
- Guard/Ground circuit for accurate leakage current measurement
- 20 ft shielded output and return cables
- Gapped core transformer design for capacitive load compensation
- Zero Start and External safety Interlock provisions

Model	PFT-503CM / PFT-503CMF
Input	(PFT-503CM) 120 V, 60 Hz, 15 A (PFT-503CMF) 230 V, 50/60 Hz, 8 A
Output	0-50 kV AC, 1 kVA resistive load 3 kVA capacitive load, up to 60 mA current Output current is reduced at lower voltages
Duty	3 kVA: ½ hour ON, 2 hours OFF 2 kVA: 1 hour ON, 1 hour OFF 1 kVA: continuous
Voltmeter	3.5”, scaled 0-25/50 kV AC, ±2% F.S.
Current Meter	3.5”, scaled 0-1 mA, ±2% F.S. with range multipliers of x1, x10, x100
Distortion	Less than 5%
Size & Weight (W x D x H)	21 x 11.25 x 15.25 in., 75 lb. 534 x 286 x 387 mm, 34 kg
Output Termination	20 ft. (6 m) shielded output cable with alligator clamp
Scope of Supply	20ft black ground lead, 20ft shielded return cable, external interlock plug, operations manual, calibration certificate

PFT Series: Other models are available from 10 kVac – 100 kVac, 1 kVA – 3 kVA

Optional Accessories & Upgrades

Hand & Foot Safety Switches

PN 90-405 PN 90-410

Safety Ground Sticks

10 inch PN 88-113 14 inch PN 88-150

Reusable Shipping Case

PN 32-0392

Optional Upgrades

Digital Metering – Add Suffix “D” · Fault Burn Reactor – PN PFT-BC

HIGH VOLTAGE, INC. 31 County Route 7A • Copake, NY
hvinc.com • f. 518.329.3271 • p. 518.329.3275

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