



## PFT Series - AC High Voltage Dielectric Test Set

0 – 100 kV AC Power Frequency AC Hipot

The **PFT-1003CM** and **PFT-1003CMF** 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 two-piece field portable design
- Secondary connected 2 Range Voltmeter: 0 - 50 / 100 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
- Gapped core transformer design for capacitive load compensation
- Zero Start and External safety Interlock provisions

Model	PFT-1003CM / PFT-1003CMF
Input	(PFT-1003CM) 120 V, 60 Hz, 15 A (PFT-1003CMF) 230 V, 50/60 Hz, 8 A
Output	0-100 kV AC, 1 kVA resistive load 3 kVA capacitive load, up to 30 mA current Output current is reduced at lower voltages
Duty	3 kVA: 1 hour ON, 1 hour OFF 1.5 kVA: continuous
Voltmeter	3.5", scaled 0-50/100 kV AC, $\pm 2\%$ F.S.
Current Meter	3.5", scaled 0-1 mA, $\pm 2\%$ F.S. with range multipliers of x1, x10, x100
Distortion	Less than 5%
Control Section Size & Weight (W x D x H)	19 x 11 x 11 in., 34 lb. 483 x 280 x 280 mm, 15kg
HV Section Size & Weight (W x D x H)	12 x 13 x 24 in., 82 lb. 310 x 330 x 610 mm, 38kg
Output Termination	Top Toroid
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

#### Handcarts



PN 90-275

#### Reusable Shipping Cases



HV Section PN

32-0334

Control Section PN

32-0333

#### Optional Upgrades

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

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

## PFT-1003CM PFT-1003CMF

0 - 100 kV AC, up to 3 kVA



AMERICAN  
MADE  
IN THE USA



ISO 9001:2015 Certified