



# ALT Series - AC High Voltage Aerial Lift Dielectric Test Set

0 – 60 / 120 kV AC Power Frequency AC Hipot

# ALT-120/60 ALT-120/60F

0 - 60 / 20 kV AC, up to 7 kVA

The **ALT-120/60** and **ALT-120/60F** from our ALT Series of field portable AC hipot test sets are primarily designed for testing the dielectric strength of aerial lifts, booms, bucket trucks and liners per the ANSI 92.2 standard. With a continuously adjustable AC voltage, 2 range voltmeter, multi range current meter and built in timer, the ALT Series are also a great choice for a pass/fail, AC over-voltage withstand testing on larger capacitive loads such as switchgear, buss duct or other substation apparatus. A gapped core transformer for up to 7.2 kVA of output power with the draw of 3.6 kVA so the hipot can be powered by a 30A, 120Vac or 15A, 230Vac input. For lower power requirements please see our **PFT Series** and **ABT Series**. For higher power requirements see our **FPA, HPA and PAR** lines.

- Secondary connected 2 Range Voltmeter: 0-30/60kV & 0-60/120kV
- 2 Range Current Meter: 0-250uA and 0-1.0mA with x1, x10, x100 multipliers
- Full 7.2 kVA, 60kV tap for bucket liner testing
- 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                     | ALT-120/60 / ALT-120/60F   |
|---------------------------|--|
| Input                     | (ALT-120/60) 120 V, 60 Hz, 30 A<br>(ALT-120/60F) 230 V, 50/60 Hz, 15 A   |
| Output                    | 0-120kV AC / 0-60 kV AC, 3.6 kVA resistive load<br>Up to 7.2KVA capacitive load (1.3 nF @ 120kV or 5.3nF @ 60kV, 60 Hz) Output current is reduced at lower voltages                        |
| Duty                      | 7.2 kVA: 1 hour ON, 2 hour OFF<br>4 kVA: continuous  |
| Voltmeter                 | 3.5", scaled 0-30/60kV & 0-60/120kV kV AC, ±2% F.S.  |
| Current Meter             | 3.5", scaled 0-250uA and 0-1.0mA ±2% F.S. with range multipliers of x1, x10, x100  |
| Distortion                | Less than 5%   |
| Size & Weight (W x D x H) | Control: 21 x 11.5 x 15.5 in., 46 lb.<br>533 x 292 x 394 mm, 21 kg<br>HV Tank: 15.5 x 15.5 x 27.5 in., 160 lb. (225 lb. w/ Handtruck)<br>394 x 394 x 699 mm, 73 kg (102.5 kg w/ Handtruck) |
| Output Termination        | Top toroid (0-120 kV)<br>1 inch ball side tap (0-60 kV)  |
| Scope of Supply           | 20ft black ground lead, 20ft shielded return cable, external interlock plug, handtruck, operations manual, calibration certificate   |



**ALT Series:** Other models are available from 100 kVac – 300 kVac, 7.2 kVA

### Optional Accessories

#### Hand & Foot Safety Switches



PN 90-405



PN 90-410

#### Safety Ground Sticks



10 inch PN 88-113



14 inch PN 88-150

### Optional Upgrades

- Digital Metering – Add Suffix “D”
- Secondary Capacitance
- Cancellation Circuit - PN 90-225