



OVERALL DIMENSIONS AND WEIGHT:

Height: 61 Inches (Towbar up) Length: 83.5 Inches
48 Inches (To top of housing)

Width: 70 Inches

Weight (Dry): 4,372 Lbs.

The Essex Electro Engineers, Inc., Model No. A510A-DC is a portable load bank tester designed to test 3-phase, 4-wire, 120/208 volt, 400 hertz, AC aircraft type alternators and 28.5 VDC and 270 VDC power supplies. It is capable of applying balanced resistance loads up to 100 KW and /or balanced reactive loads up to 60 KVAR, 80KW at 270VDC and 750A at 28VDC.

The Load Bank is trailer mounted. The trailer is four (4) wheeled (steerable front wheels), equipped with a tow bar, pin-tle assembly and a manually actuated mechanical parking brake. Components are completely enclosed in a lightweight, weatherproof housing, consisting of two sections, each independently removable.

Resistive and reactive loads are continuously variable throughout the rating (72 KW, 60 KVAR) with provisions to shock pre-set loads. To indicate load values, the load bank is equipped with a phase to neutral, phase to phase indicating voltmeter, ammeter, single phase power factor meter and a 3-phase indicating wattmeter. All controls and instruments necessary to operate or monitor Model A510A1-DC are located on a single control panel at the rear of the unit. Test jacks for potential and current readings with external meters are provided. The instruments are ruggedized, shock resistant and are illuminated for night operation.



TECHNICAL DESCRIPTION:

AC LOADING

- Resistance Loading 1/2-72KW; balanced, 3-phase
- Reactance Loading 0 - 60 KVAR balanced, 3-phase, 4-wire, 115/200 volts, 400 Hertz, 5% maximum current wave shape distortion
- Power Input Terminals 5/16 stud type with insulating knob
- Phase Unbalance 5 KW, 5 KVAR per phase
- Power Factor Meter 0 to 1.0 power factor, ± 0.04 p.f.
- Ammeter, AC 0-5, 150, 300 amps, 400 Hertz, $\pm 3.5\%$ system
- Voltmeter, AC 0 to 125/250 VAC, 400 Hertz, $\pm 2\%$
- Wattmeter 0-2, 10, 20, 50, 100 KW $\pm 5\%$
- Special Features Maximum temperature rise of resistive elements 375°C

DC LOADING

28.5 VDC Loading

- Resistance Loading 600 amps
- Shorting Bar 2,000 amps
- Power Input Connection .. 5/16 stud type with insulating knob and MS type connector

270 VDC Loading

- Resistance Loading 350 amps
- Power Input Connection .. 5/16 stud type with insulating knob and MS type connector

DC Meters

- Ammeter, DC 0 - 2,000 amps, dual scale
- Voltmeter, DC 0 - 300 VDC, dual scale