

Electrical Test Instruments, Inc.
Product Description and Specifications
10 kVA Autotransformer Model AT-10B

Overview:

This is a portable autotransformer intended to allow the **PI-800** and **PI-1600** test sets to be used at full capacity on 480 VAC lines. It provides 240 VAC at 10 kVA, and also it is housed in a rugged ABS enclosure approximately 22" wide x 11" high x 22" deep, including 2" lids, and weighs less than 90 lbs.

Basic Description and Operation:

This instrument is housed in a rugged waterproof case with removable front and rear covers. The input connection is by way of two 50 A male connectors and a ¼" ground lug. Female plugs are provided for the customer to make cables as required. The input is protected by high interrupting capacity 30 ampere circuit breaker. When input power is applied, POWER ON light is illuminated. When the circuit breaker is energized the OUTPUT ON light is illuminated 240 VAC on two 50 A female connectors.

In the case of long term overload and subsequent overheating of the autotransformer, thermal overload switches will open. It is the responsibility of the user to remove the load if this occurs. The unit should remain powered up so the fans may remove heat from the enclosure.

It is extremely important to check the input voltage before applying power that is connected to the AT-10B INPUT JACKS. If 480 VAC is applied to the OUTPUT JACKS this will present a dangerous condition which may damage the unit or cause injury to the operator. It is good practice to connect the unit in the following sequence:

- (1) Inspect the input jumper to make sure it is tight and properly set.
- (2) Measure the input power source to verify it is within the limits of the **AT-10B** as configured.
- (3) Connect the input ground terminal to a solid earth ground.
- (4) Connect the output ground terminal to the **PI-800**.
- (5) Connect the power leads from the **AT-10B** output jacks to the **PI-800** input jacks.
- (6) Connect the input leads of the **AT-10B** to a de-energized power source.
- (7) After both Input and Output cables are properly connected energize the power source and turn on AT-10B using the circuit breaker and verify that both the Power On and Output On lamp lights illuminate.

Specifications:

Width: 22 inches (559 mm)
Height: 11 inches (280 mm)
Depth: 18 inches (457 mm)
Depth (lids): 2.0 inches (51 mm)
Weight: 87 pounds (38.5 kG)

Input (480V): 420-520 VAC, 60 Hz, 10 kVA nominal (21 amperes)

Output (Main): 240 VAC at 40 A continuous (9.6 kVA)

Output (Auxiliary): 120 VAC at 4 A continuous (480 VA)

Regulation: 2% at rated load on main output
5% at rated load on auxiliary output

Overloads: 200%	30 seconds ON, 90 seconds OFF	(25% Duty Cycle)
300%	10 seconds ON, 90 seconds OFF	(10% Duty Cycle)
1000%	0.3 seconds ON, 30 seconds OFF	(1% Duty Cycle)

