

AC Interface Fixture for AT3600 Testers

Introduces the AT test philosophy to power transformers

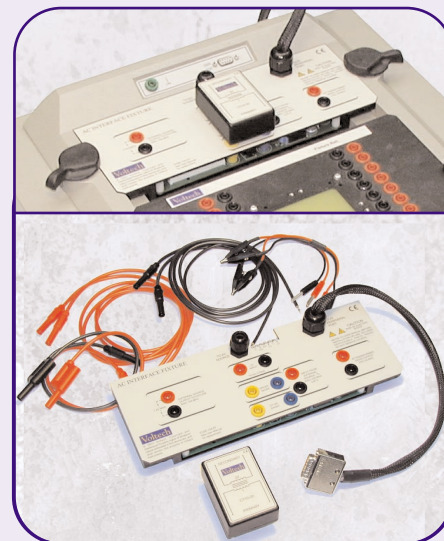


Key features:

- Extends the range of wound components that may be tested by the AT3600 by allowing a variety of third-party AC sources to provide the test signal.
- Can be used with external sources that provide up to 600Vs @ 10A, 20 Hz to 1MHz for testing higher-power transformers.
- Automatically controls the AC source to optimize test speed and enhance operator safety.
- Isolates the AT3600 from the external source, when the external source is not being used, preventing damage to the source during high-voltage testing.

Voltech AC Interface:

The AC Interface is a versatile accessory for the AT3600 transformer tester, designed to integrate either a step-up transformer or an external AC source when voltage and power levels needed for transformer testing are beyond the capacity of the AT3600's internal generator. The Interface fits directly into the extended fixture bay of the AT3600 and provides all the necessary connection terminals, control circuits, safety switching and digital communication required to bring power transformers into the AT testing environment.



Functionality:

The AC Interface communicates with the AT3600 to provide complete testing of a transformer with low-power, high-power and high-voltage safety tests—all executed in one sequence without any operator intervention. Control of the external source is fully automatic, ensuring that all high-power tests using an external source maintain the same control, accuracy and test integration that would be expected if the source was part of the AT3600.

Specification:

The following tests are available for use with an external AC source, when an AC Interface fixture is used in combination with an AT3600 tester:

Tests*	User Entered Test Data			A _R ⁽³⁾
	Measurement Range	Test Signal	Test Frequency ⁽¹⁾⁽²⁾	
*Purchased separately				
MAGX - Magnetizing Current	10µA to 10kA	5V to 600V	20Hz to 20kHz	0.1%
VOCX - Open Circuit Voltage	100V to 650V ⁽⁴⁾	5V to 600V	20Hz to 20kHz	0.1%
WATX - Wattage	1mW to 10kW	5V to 600V	20Hz to 20kHz	1%
STRX - Stress Wattage	1mW to 10kW	5V to 600V	20Hz to 20kHz	1%

Notes:

- 1) Specification using supplied CT10-20. Up to 1MHz possible with suitable current transducer.
- 2) 1.5kHz when using the AT3600's internal source to power output transformer source type.
- 3) A_R = basic relative accuracy
- 4) 650Vrms for AC measurements, or 900V for DC measurements.
- 5) Specification valid at 23 ± 5 °C.

Ordering information:

- AC Interface Fixture - AC Interface fixture for external step-up transformer or AC source
- AT TEST "MAGX" - Magnetizing current test (external source)
- AT TEST "VOCX" - Open circuit voltage test (external source)
- AT TEST "WATX" - Wattage test (external source)
- AT TEST "STRX" - Stress wattage test (external source)

For further information, please contact:

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