

Advanced Test Equipment Rentals www.atecorp.com 800-404-ATEC (2832)

TOS5051

WITHSTANDING VOLTAGE TESTER



AC/DC 5 kV Transformer capacity: 500 VA

Outline

The Model TOS5051 is a withstanding voltage tester having a transformer capacity of 500 VA and test voltage of 0 to 5 kV that allows both application of AC and DC.

The Pass/fail judgement function employs a window comparator type that enables highly reliable testing including that for test lead disconnection and defective contact.

Moreover, as a result of employing a remote control function for start and stop operations and being equipped with output signals for various judgement results, the TOS5051 is able to contribute to greater automation and efficiency of testing.

Various safety devices, including an automatic discharge function (during DC operation), are provided in full consideration of operator safety. In addition, the use of a large, color display makes the TOS5051 extremely legible, providing strong support for more accurate and safer operation.

Features

- Complies with various safety standards
- AC/DC output (0 to 5 kV)
- Large color display
- Digital voltmeter and ammeter
- Digital timer
- Window comparator type employed for Pass/fail judgement.
- Equipped with remote control function
- Various signal outputs
- Automatic discharge function (during DC operation)
- Provided with zero turn-on switch
- Compact size



A high-luminance, fluorescent display tube is employed for display of settings, status and judgement results.

TO\$5051

WITHSTANDING VOLTAGE TESTER

Specifications

AC and DC

Test Voltage
Applied Voltage
Maximum Rated
Output
Wattage Rating
Waveform
Voltage Regulation

Switching Ripple (DC)

 Output Voltmeters Scale Accuracy

AC Indication

Full Scale AC Response

Ammeter Accuracy

AC Response

Pass/fail Judgement Function Type of Judgement

Upper Cutoff Current Setting Range Lower Cutoff Current Setting Range Judgement Accuracy Current Detection

Calibration

Rear Panel

(3)

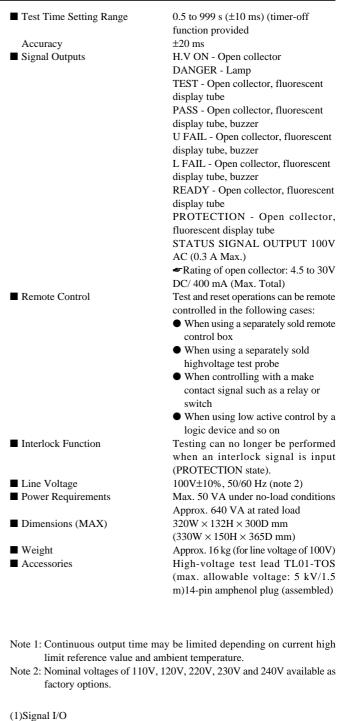
No-load Output Voltage

(2)

(1)

(5)

0 to 2.5/0 to 5 kV AC: 500VA/5 kV, 100 mA (note 1) DC: 50W/5 kV, 10 mA (note 1) 500 VA Commercial line waveform AC: Max. 15% (for max. rated load to no load) DC: Max 3% (for max. rated load to no load) Use of a zero turn-on switch 50 Vp-p typ. at 5 kV, no load 100 Vp-p typ. at max. rated output Analog: 5 kV full scale, AC/DC Analog: ±5% of full scale Digital: ±1.5% of full scale Analog: Mean value response/rms value scale Digital: 2.5 kV/5 kV full scale Digital: Mean value response/rms value display Digital: $\pm(5\% + 20\mu A)$ of upper cutoff current Digital: Mean value response/rms value display Window comparator type • FAIL judgement *When current detected above upper cutoff current *When current detected below lower cutoff current (FAIL signal generated when FAIL judgement made) PASS judgement *When set time has elapsed and no abnormality is detected AC: 0.1 to 110 mA DC: 0.1 to 11 mA AC: 0.1 to 110 mA DC: 0.1 to 11 mA \pm (5% of upper cutoff current + 20 μ A) Integration of current absolute value followed by comparison with reference value With rms value of sine wave using a pure resistance load Approx. 460V when set to 100 mA AC Approx. 100V when set to 10 mA DC



Input/output connectors for interlock function input/output signals, start/ stop remote control input signals and status output signal. (2)Test Mode Switch

This is a DIP switch for setting special test modes. Parameter settings such as test start and interruption operations can be changed with this switch. (3)Status Signal Output Terminal

This is a 100V AC output terminal for operating an optional warning lamp unit or buzzer unit. Conditions during AC 100V output (status, judgement results) are set with DIP switches.

(4)Ground Terminal

(5)Line Input Terminal (integrated with fuse holder)

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