

ITC75100

unclamped inductive load tester



utilities	<p>AC Input Power: 105 - 125 VAC 50/60 Hz 210 - 250 VAC 50/60 Hz</p> <p>AC Fuse: 115 VAC - 6A 230 VAC = 3A</p> <p>Service: 10 A 10 A</p> <p>Maximum Current: 115 VAC - 6A 230 VAC - 3A</p>
mechanical specifications	<p>Physical Dimensions:</p> <p>Height: 12.25" (31cm)</p> <p>Width: 19" (48 cm)</p> <p>Depth: 22.5" (57cm)</p> <p>Weight: 60 lbs. (27 kg)</p>
electrical specifications	<p>Military Specifications: ITC75100 Testers Conform to MIL-STD-750, Method 3470</p> <p>Output Energy Limits: 1 millijoule to 0.0049 * (VDD)² joules in 1 millijoule steps (i.e., 50V = 12.375 joules, 100V = 49.5 joules, 150V = 111.375 joules)</p> <p>Output Current x Time (IT) Limit: No Limit</p> <p>RTF Test Increment to Failure: Increments ID or L with programmable inductive load box attached</p> <p>Current Sensor Scale Factor: 250 mV/Amp@ 0.1A to 40.0A, 25 mV/Amp @ 40.1A to 200A</p> <p>Current Sensor Type: Hall Effect Sensor</p> <p>Drain Current Range: 0.1 to 200 amperes in 0.1 ampere steps</p> <p>Drain Voltage Range: Plus or Minus (N- or P- Channel) 10 -150 volts in 1 volt steps</p> <p>Rated Drain-Source Avalanche Voltage Range: (BVDSS) 10 to 2500 volts in 1.0 volt steps</p> <p>Drain/Source Kelvin Resistance Limit: 25 ohms</p> <p>Gate Pulse Voltage Range: 28V span, 1V steps, bi-polar drive</p> <p>Leakage Test (Pre & Post Avalanche) Forced Voltage = 2V to Programmed Drain Voltage (max.) I = 1.0 mA; I_{max} = 8.0 mA</p> <p>Solid State Power Switch: 200 amps</p> <p>Gate Drive Resistance: 25Ω (50Ω per Kelvin leg)</p> <p>Parameter Entry: Tablet PC on front panel. GPIB or serial from host computer. Any entry or calculated parameter that produces an out-of-range value indicates the parameter to be changed and a Start Test cannot be initiated until the parameter error has been corrected.</p> <p>Waveform Capture & Analysis: Waveforms can be captured and viewed on the Tablet or via GPIB</p> <p>Outputs: Two isolated test outputs for testing N, P or combination MOSFET's, IGBT's and single and dual diodes with optional RSF box.</p>
interfaces	<p>Handler Interface: Tesec handler with 15-bin control, others are special order.</p> <p>ITC55MUX4: PC Parallel Interface Supported</p> <p>IEEE 488 (GPIB) Interface: Talker/Listener with Tesec protocol standard; other protocols are special order.</p>
optional inductive load boxes	<p>ITC5514A: 0.01 - 159.9 mH - Inductance is manually selected</p> <p>ITC5514B: 0.01 - 159.9 mH - Inductance selection is programmable</p> <p>ITC5515: 0.1, 0.3, 1.0, 3.0, 10.0 mH - Inductance selection is programmable</p> <p>ITC5516: 0.001 - 0.300 mH - Inductance selection is programmable</p> <p>ITC5517: 0.01 - 79.9mH - Inductance selection is programmable</p> <p>ITC55140: 0.01 - 159.9 mH - Inductance selection is programmable</p> <p>ITC55170: 0.01 - 79.9mH - Inductance selection is programmable</p> <p>External Inductor: 500 mH maximum limit</p> <p>Load Inductance Range (Software Limits): Range 1 = 0.001 to 0.300 mH in 0.01 mH steps (using ITC5516) Range 2 = 0.01 to 99.99 mH in 0.01 mH steps (using ITC5514) Range 3 = 100.0 to 159.9 mH in 0.1 mH steps (using ITC5514)</p>

Note: Specifications subject to change without notice.

INTEGRATED TECHNOLOGY CORPORATION
 1228 North Stadem Drive • Tempe, Arizona 85281 USA • Phone 480-968-3459 • Fax 480-968-3099
 Sales@IntTechCorp.com

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ITC75100-Crowbar

general	<i>Maximum Drain Voltage :</i> 2500V <i>Maximum Current:</i> 200A
drain voltage threshold	<i>Range:</i> 10V to 500V <i>Resolution:</i> 1V <i>Triggering/Sensing Accuracy:</i> +/-5V <i>Response Time:</i> <10us
overvoltage	<i>Range:</i> 10V to 2500V <i>Resolution:</i> 1V <i>Accuracy:</i> +/-20V <i>Response Time:</i> <10us

ITC75100-POD

general	<i>GDS Kelvin Resistance:</i> <5ohm
Vds Sensing	<i>Range:</i> +/- 20V <i>Resolution:</i> 150uV <i>Accuracy:</i> +/- 2mV or 1% (whichever is greater)
Vf Sensing Pre or Post Avalanche Test	<i>Range:</i> +/- 2V <i>Resolution:</i> 15uV <i>Accuracy:</i> +/-1mV or 1% (whichever is greater)
If Sensing	<i>Range:</i> 1mA to 40mA <i>Resolution:</i> 1mA <i>Accuracy:</i> +/- 0.5mA or 5% (whichever is greater)

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