ITC55100D-6KVN

Unclamped Inductive Load Tester

Integrated Technology Corporation

Spec Sheet

Utilities	AC Input Power:	100 - 230 VAC 50/60 Hz Universal	
	AC Fuse:	220 VAC - 6A	
	Service:	10 A	
	Maximum Current:	6 A	
Mechanical Specifictions	Physical Dimensions:	Height:	9.5" (24 cm)
		Width:	17" (43 cm)
		Depth:	22.5" (57 cm)
		Weight:	60 lbs. (27 kg)
Electrical Specifications	Military Specifications:	ITC55100D-6KVN Testers Conform to MIL-STD-750, Method 3470	
	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)	
	RPF Test Increment to Failure:	Increments ID or L with programmable inductive load box attached	
	Current Sensor Scale Factor:	800 mV/A@ 0.1A-10A, 200 mV/A@10.1A-40A, 20 mV/A@ 40.1-200A	
	Current Sensor Type:	Hall Effect Sensor	
	Drain Current Range:	0.1 to 200 amperes in 0.1 ampere steps	
	Drain Voltage Range:	10 -150 volts in 1 volt steps	
	Rated Drain-Source Avalanche Voltage Range: (BVDSS)	100 to 6000 volts in 1.0 volt steps Drain/Source Kelvin Resistance Limit: 25 ohms	
	Gate Pulse Voltage Range:	28V span, 1V steps, bi-polar drive	
	Leakage Test (Pre & Post Avalanche)	Forced Voltage = 2V to Programmed Drain Voltage minus 2V (max.) I = 1.0 mA; Imax = 10 mA	
	Crowbar/Diode Driver:	6000V 200A (Optional)	
	Gate Drive Resistance:	25Ω (50Ω per Kelvin leg)	
	Parameter Entry:	Touch screen display 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.	
	Waveform Capture & Analysis:	Waveforms can be captured and viewed on the LCD front panel display or via GPIB	
	Outputs:	Test outputs for testing N channel MOSFETs, IGBT's and single diodes with internal Crowbard/Diode Driver	
Interfaces	Handler Interface:	Tesec handler with 15-bin control and ITC5510 compatible interface standard, others are special order.	
	IEEE 488 (GPIB) Interface:	Talker/Listener with Tesec protocol standard; other protocols are special order.	
Optional Inductive Load Boxes	ITC5514HV:	0.01 - 159.9 mH - in 0.01 mH steps, Inductance selection is Programmable	
	ITC5517HV:	0.01 - 79.9mH - in 0.01 mH steps, Inductance selection is programmable	
	ITC55IND-XXXmH	Discrete inductor, 0.5mH to 500mH maximum	

Note: Specifications subject to change without notice.

INTEGRATED TECHNOLOGY CORPORATION

1228 North Stadem Drive • Tempe, Arizona 85288 USA • Phone 480-968-3459 • Fax 480-968-3099

Sales@IntTechCorp.com