

ITC57300

specifications



Basic System Capabilities	<i>Maximum Test Voltage</i>	1200Vdc@200A	
	<i>Minimum Timing Measurement</i>	1.0ns	
	<i>Windows compatible control PC</i>		
	<i>Labview user interface</i>		
Physical Dimensions	<i>Height = 65 inches</i>	<i>Width = 24 inches</i>	
	<i>Depth = 29 inches</i>	<i>Weight = 450 pounds</i>	
ITC57210 Resistive Switching Time Specifications	<i>Pulse Width</i>	0.1 μ s to 10 μ s in 0.1 μ s Steps	
	<i>Gate Drive Voltage</i>	+/-20V @ 0.1V Resolution	
	<i>Gate/Current</i>	Maximum Gate Current = 1.0 A	
	<i>Drain/Current</i>	Maximum Pulsed Current = 200 A	
MIL STD 750 Method 3472	<i>Duty Cycle</i>	Less Than 0.1 %	
	<i>Supply Voltage (V_{DD})</i>	5V - 100V, 0.1V Steps 100V - 1200V, 1.0V Steps	
ITC57220 Trr/Qrr Specifications	<i>Forward Current (IF)</i>	ITC5722B = 1.0 - 50 A @ 0.2 A Resolution 50.5 - 200 A @ 1.0 A Resolution	
	<i>Reverse Current Slope (di/dt)</i>	25 - 600 A/ μ s in 1.0A/ns Steps	
	<i>Reverse Voltage (VR)</i>	20 - 1200V	
	<i>Reverse Current (IRM)</i>	Total combined forward and reverse maximum current is limited to 200A	
	<i>Duty Cycle on DUT</i>	Less than 1.0%	
	<i>Reverse Recovery Time Range (Trr)</i>	10 ns - 2.0 μ s	
	<i>Supply Voltage (V_{DD})</i>	5V - 100V, 0.1V Steps 100V - 1200V, 1.0V Steps	
ITC 57230 Gate Charge Specifications	<i>Gate Drive</i>	<i>Low</i>	0 - 2.0 mA @ 0.01 mA Resolution
		<i>Medium</i>	2.0 - 20.0 mA @ 0.1 mA Resolution
		<i>High</i>	20.0 - 200.0 mA @ 1.0 mA Resolution
	<i>Gate Voltage Range</i>	\pm 20 volts @ \pm 0.1 V Resolution	
	<i>Drain Current (Solid-State Load)</i>	1 - 25 A @ 0.1 A Resolution	
		25 - 200 A @ 0.5 A Resolution	
MIL STD 750 Method 3471	<i>Drain Voltage</i>	5V - 100V, 0.1V Steps	
		100V - 1200V, 1.0V Steps	

Note: Specifications are subject to change without notice.

F.S. = Full Scale of the Given Range

RDG = % of Reading

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<p>ITC57240 Inductive Switching Time Specifications</p> <p>MIL STD 750 Method 3477</p>	<p><i>Current</i> 1.0 - 50 A @ 0.2 A Resolution 50.5 - 200 A @ 1.0 A Resolution</p> <p><i>Inductors</i> 0.1mH to 159.9mH</p> <p><i>Gate Drive</i> +/-20V @ 0.1V Resolution</p> <p><i>Drain Voltage</i> 5V - 100V, 0.1V Steps 100V - 1200V, 1.0V Steps</p>
<p>ITC57250 Short Circuit Withstand Time</p> <p>MIL STD 750 Method 3479</p>	<p><i>Max Current</i> 1000A</p> <p><i>Pulse Duration</i> 1us to 100us</p> <p><i>Gate Drive</i> +/-20V @ 0.1V Resolution</p> <p><i>Drain Voltage</i> 5V - 100V, 0.1V Steps 100V - 1200V, 1.0V Steps</p>
<p>AC Input Requirements</p>	<p>220 Vac 50/60 Hz Single-Phase 240 Vac is optional</p> <p>Maximum Current: 220 Vac = 12A Input AC Breaker = 20A Service = 30 A</p>

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