Platform Lightning Test System

Introduction

Platform Lightning Test System is designed to inject lightning test currents (Component A,D,H for Indirect Effects Tests) into an aircraft or a missile or into large components or sections thereof (such as engines or wings) for the purpose of experimentally determining the voltages and currents that would be induced on electrical wiring inside an equivalent structure when it is struck by lightning. The test system consists of generators designated to perform platform level aircraft test defined in SAE ARP 5412C and MIL-STD-464D.





Features

1) Automatic control and measurement system;
2) Each part has wheels at the bottom, easy for movement;
3) Accurate measurement and smooth waves;
4) User friendly, easy operation and maintenance;
5) Considerate safety measures, such as emergency stop button, green and red light, door safety interlock, etc.

High Current Test Waveforms

Wave Type	Rise Time T1	Decay Time T2	Time to 90% of Peak
Component A	6.4 μs (±20%)	69 μs (±20%)	within 3 μs
Component D	3.18 μs (±20%)	34.5 μs (±20%)	within 1.5 μs
Component H	0.245 μs (±20%)	4 μs (±20%)	within 100 ns

Technical Parameters

Model No.	Output Wave	Output Current kA
SXIC-10AD	Component A	2~20kA with max.8μH load; 1~10kA with max.15μH load; 0.5~5kA with max.30μH load;
	Component D	1~10kA with max.8μH load; 0.5~5kA with max.15μH load; 0.25~2.5kA with max.30μH load; Manually change the the waves by changing inductors and capacitors
SXIC-1H30	Component H	0.1~1kA with max.30μH load
SXIC-2H15	Component H	0.2~2kA with max.15μH load
SXIC-03A	Component A	0.3~3kA (±10%) with max.30 μH load
SX-3ADH15	Component A	Max.3 kA (±10%) with max.15 μH load (single stroke)
	Component D	Multiple Stroke Waves: Max.3 kA (±10%) (first stroke); Max.1.5 kA (±10%) (subsequent stroke,13 shots); with max.15 μH load;
	Component H	Single stroke or multiple burst waves: Max. 160A (±10%) with max. 15 μH load;



