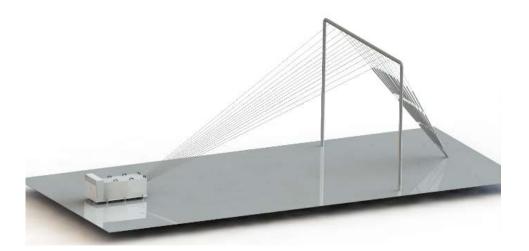


EMP Test System

Application

This system is mainly used for conducting nuclear electromagnetic pulse sensitivity tests on electronic systems.

It can apply a maximum pulse electric field of 50kV/m to the test object to test its reliability in a strong pulse electric field environment.



Standards

- 1) GJB151B-2013 RS105
- 2) GJB1389A Electromagnetic compatibility requirements for systems
- 3) IEC61000-2-10
- 4) GJB 8848-2016

Operation condition

Temperature: 0°C~45°C; Relative humidity: ≤85%;

Operation: indoor;

Seismic resistance: Grade 8 strength;

No conductive dust, no fire or explosion hazards, and no gas that corrodes metals or

insulation.

Features

Colorful touch panel for easy operation, user friendly and remote control;

Considerate safety measures;

Abnormal charging protection;

Automatic diagnosis of multiple faults such as charging overcurrent, overvoltage, and self discharge lamp;



Fiber optic remote communication control; Program controlled DC high-voltage charging

Main Technical Parameters

Model	EMP100	EMP240	EMP300	EMP400	EMP800	
Charging voltage	120kV	240kV	300kV	400kV	800kV	
HV impulse	120kV	240kV	300kV	400kV	800kV	
power						
TEM antenna	1.8m cone	3.6m cone	5m cone	6m cone	12m cone	
	shaped	shaped	shaped	shaped	shaped	
	transmission;	transmission;	transmission;	transmission;	transmission;	
	Line simulator	Line simulator	Line simulator	Line simulator	Line simulator	
Control	Remote	Automatic	Automatic	Automatic	Automatic	
system	control	control with	control with	control with	control with	
		iMCS2000,	iMCS2000,	iMCS2000,	iMCS2000,	
		remote	remote	remote	remote	
		control	control	control	control	
Dimension	8*2.5*1.8m	15*4.5*3.6m	20*7*5m	24*8*6m	48*15*12m	
(LWH)						
Test area	1.1* 1.2*0.9m	3* 2.5* 1.1m	3*3*1.6m	4*4*2m	8*8*4m	
(LWH)						
Installation						
dimension	9*4.5*3m	20*7*6m	25*10*10m	28×12×10m	60*20*18m	
(LWH)						
Disassembly	Rapid disassembly and / / /			/		
and	installation					
installation						
Rise time	2.3ns±0.5ns					
Pulse width	23ns±5ns					
Electric field	50kV/m					
strength	JORVAIII					
Transmission						
line	120Ω					
impedance						
	10-999s adjustable					
Interval time	14-999s adjustable					
Power supply	AC 220V±10%, 50Hz, 20A					
		Accessories	for optional			
Pulse decoupling device		Model: DN-450T-COM;				
		Operation volta	Operation voltage: AC450V/DC300V,3 phase 5 lines;			
		Power frequency: DC-400Hz; Decoupling wave: 2.3/23ns; Load operating current: max. 50A; Used for EUT online testing to prevent any impact on the power supply				



Voltage probe	Model: RVP-200;		
	Non inductive resistive voltage divider, measure voltage wave		
	upto 200kV;		
	Measure the wave of 2.3/23ns		
Ground electric field probe	Model: EFP-100		
	Using D-DOT measurement technology, combined with integrator, it can measure 2.3/23ns electric field waveform up to 100kV/m; Measurement range: 5kV/m-100kV/m		
Fiber optic electric field probe	Model: FFP-100;		
	Using the original waveform probe; Directly cooperate with analog fiber optic signal transmission; The transmitting and receiving ends are included; Measurement range: 5kV/m-100kV/m		
Measurement system	iMAS3000 measurement software with a laptop;		
	Communicate with oscilloscope (Tektronix, Rigol and Agilent		
	brand);		
	Support GPIB, TCPIP and USB communication interfaces;		
	Automatically measure and analyze waveform parameters,		
	Output test reports		
Oscilloscope	Tektronix, Rigol and Agilent brand		