

PART EIGHT

SURGE GENERATOR

08

Introduction

Surge generators can be used to generate impulse of exponential shapes to perform high energy surge tests. The system can output combination wave (open circuit voltage 1.2/50 μ s & short circuit current 8/20 μ s, open circuit voltage 10/700 μ s & short circuit current 5/300 μ s). With additional impulse modules, it can output 10/350 μ s and 8/20 μ s.

Applications

Test Class II or Class III SPD, and electronic appliances according to IEC 61000-4-5, IEC 61643-11, UL1449-2006



Impulse Module



20kV 10kA

Technical Parameters

Model No.	Open circuit voltage waveform (1.2/50 μ s)	Short circuit current Waveform (8/20 μ s)	Output Impedance	Impulse Repetition
CWG6	1~6kV	0.5~3kA	2 Ω	3 pulses/minute
CWG10	1~10kV	0.5~5kA	2 Ω	2 pulses/minute
CWG20	1~20kV	1~10 kA	2 Ω	2 pulses/minute
CWG30	1~30kV	1.5~15kA	2 Ω	2 pulses/minute

Optional

☆ Different impulse modules for your choice

Impulse module no	Output waveform	Output range	Output Impedance	Impulse Repetition
JXIM-01	Combination waveform 10/700 μ s	1~10kV	40 Ω	2 pulses/minute
	Combination waveform 5/300 μ s	25~250A		
JXIM-02	10/350 μ s	1~5kA	12 Ω	2 pulses/minute
JXIM-03	10/1000 μ s	75~375A	37 Ω	2 pulses/minute
JXIM-04	8/20 μ s	5~30kA	0.5 Ω	2 pulses/minute

☆ AC or DC power source for operating duty test

☆ Coupling/Decoupling network